



# D.I.D.<sup>®</sup>

POWERED by TECHNOLOGY

CATALOG  
2021





**BEST RIDERS' CHOICE**

**D.I.D.®**  
POWERED by TECHNOLOGY



Valentino Rossi - D.I.D World Brand Ambassador  
**VR46**

**WORLD'S NO.1 GENUINE PARTS MANUFACTURER**

D.I.D is the World's No.1 original parts (OE) supplier for Japanese and European motorcycle manufacturers (Based on industry surveys dated January 2017). The D.I.D genuine parts that are supplied to numerous motorcycle manufacturers have worldwide reputation for superior quality and reliability.

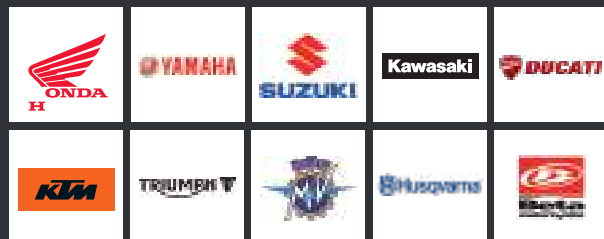


**MADE IN JAPAN: UNCOMPROMISED QUALITY PROVIDING OUTSTANDING PERFORMANCE THE WORLD OVER**

D.I.D brand drive chains and aluminum rims are all manufactured in Kaga, Ishikawa prefecture, Japan and supplied through motorcycle dealers worldwide. These top quality products are meticulously made by skilled technicians in order to provide outstanding performance for all riders. It is this focus on perfection that D.I.D has been pursuing for over 80 years.

**RACE PROVEN TECHNOLOGY**

We support top riders through a program designed to rigorously test and develop our products by working with their teams at the most demanding racetracks in the world.



**DIRECT**

**DIRECT ENERGY TRANSFER**

"DIRECT" is D.I.D. Original Concept born from years of experiences in MotoGP Development to increase the chain's rigidity. Rigidity in a chain means resistance to chain deformation and elongation. "DIRECT" gives you amazing throttle response by preventing pins from being flexed during acceleration and deceleration.



- > Quicker Response
- > Reduced Power Loss
- > Smoother Handling

**X-RING**

D.I.D's PATENTED X-Ring® is superior to others.

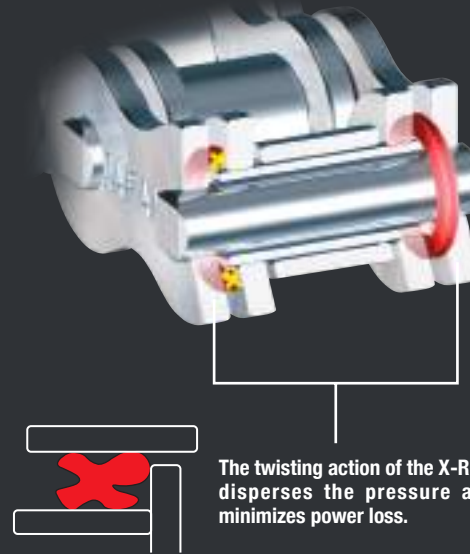
HALF THE POWER LOSS (Compared with Normal O-Ring)

Friction Performance

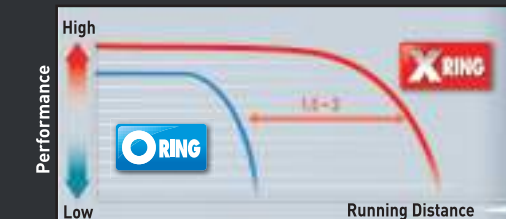


Low Friction ◀ Friction Performance ▶ High Friction

D.I.D's PATENTED X-Ring® construction reduces friction by twisting between the side plate instead of being squashed.



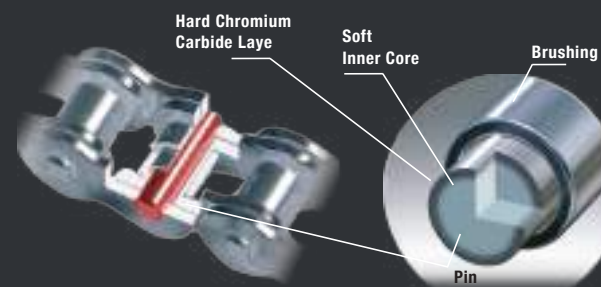
**X-Ring® Chain Endurance Performance**  
(Compared with Normal O-Ring)



The X-Ring's four contact points greatly increase its sealing performance. This keeps the dirt out and the lubrication in much better than any other O-Ring type seal.

**SDH PIN** Extreme Impact Pin Strength

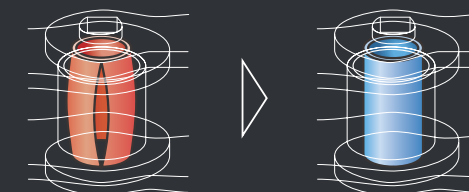
SDH pin treatment creates extremely hard Chromium carbide layer on the pin surface. But at the same time the inner core is maintained soft to absorb shock load of high jump etc.



**SOLID BUSH** Cold-Formed High-Precision Bushing

Solid Bushing chains have a high wear-resistance. The cold-formed solid bushings have a smooth seamless surface with complete roundness.

Curled bushing of a standard roller chain      Solid bushing for longer chain life





Upgraded from DID 525VX  
**525VX3**

Upgraded from DID 530VX  
**530VX3**

Upgraded from DID 520ERV3  
**520ERV7**

Track & Trial



CHAIN	DISP. C.C.	MAIN FEATURE
520ERV7 G&G	250-1000cc	X-Ring da MotoGP e SBK

### Tensile Strength Increase

A slight jump from the ERV3, the ERV7 boasts a 3% higher tensile strength due to stronger inner side plates and thicker pins.

### Longer chain life

Due to increased X-Ring durability, the ERV7 sees a 13% wear resistance increase from the previous ERV3.

### Reduced Friction

Because of the X-Ring improvements, the ERV7 will have less friction than the ERV3.

**NEW**

Upgrade of Pro Street 525VX & 530VX Chains



The BEST just got BETTER!

**NEW**



# SERIES VX3

428 520 525 530

**GOLD**  
**STEEL**  
**SILVER**



# SERIES ER

EXCLUSIVE RACING

Valentino Rossi



Andrea Dovizioso

Racing Track

**GOLD**

### Higher Tensile Strength

The 525VX3 and 530VX3 both have an 8% tensile strength increase from the 525VX and 530VX due to the hardness of its inner plate.

### Wider Range of Motorcycles

The max cc rating of the 525VX3 is 1,000 cc, up from 900 cc with the 525VX. The 530VX3 has a max cc rating of 1,100 cc, up from 1,000 cc with the 530VX.

### Longer chain life

With an X-Ring material upgrade, the 525VX3 has a greatly improved sealing performance and a wear resistance increase of 11% while the 530VX3 wear resistance increases by 5%!

Street

CHAIN	DISP. C.C.	MAIN FEATURE
525VX3	400-1000 cc	X-Ring Best price / quality ratio in the market
530VX3	750-1100 cc	

### Performance Chart

	Size	Max CC	Pin Length		Pin Diameter	Plate Thickness		Weight		Tensile Strength (kN)	Wear Resistance	Conn Link		
			mm	in		Inner	Outer	Kgs	Lbs			Rivet ZJ	Press-Fit Clip	Loose-Fit Clip
OLD	525VX	900	22,00	0,866	5,51	2,2	2,2	1,85	4,09	41,00	3,600	Included	Option	N/A
NEW	525VX3	1000	22,00	0,866	5,51	2,2	2,2	1,85	4,09	44,36	4,000	Included	Option	N/A
OLD	530VX	1000	23,65	0,931	5,51	2,2	2,2	1,95	4,29	41,00	3,800	Included	N/A	N/A
NEW	530VX3	1100	23,65	0,931	5,51	2,2	2,2	1,95	4,29	44,36	4,000	Included	N/A	N/A
OLD	520ERV3	750	18,60	0,732	5,31	2,0	2,0	1,54	3,39	38,50	3,100	Included	N/A	N/A
NEW	520ERV7	750	19,10	0,752	5,51	2,0	2,0	1,55	3,41	39,50	3,500	Included	N/A	N/A



Upgraded from DID 520VX2  
**520VX3**



**DIRECT** **X-RING** **SOLID BUSH**

Street & Off Road

CHAIN	DISP. C.C.	MAIN FEATURE
428VX	50-350 cc	X-Ring Best price/quality ratio in the market
520VX3	125-800 cc	

The new 520VX3 will fit a wider range of motorcycles: max 800cc (max. 125HP).

**Longer chain life!** Due to increased X-ring retention and durability, 520VX3 has a greatly improved sealing performance.

**530ZVM-X**



**DIRECT** **X-RING** **RACING** **SOLID BUSH**

Sport-Tourer & Sportive

CHAIN	DISP. C.C.	MAIN FEATURE
520ZVM-X	250-1200 cc	Super strong Longest wearing
525ZVM-X	450 - 1300 cc	
530ZVM-X	600 - 1400 cc	

**Direct Energy Transfer!** with Direct Energy Transfer, lets you feel every twist of the throttle with amazing acceleration response. This is due to our state-of-the-art technology to increase the rigidity in a chain.



**SERIES VX3**

428 520 525 530

**GOLD**  
**STEEL**  
**SILVER**



**SERIES ZVM-X**

520 525 530

**GOLD** **SILVER**  
**STEEL** **BLACK**

Alex Rins

**VX Series specifications**

**+ RIGIDITY**

Thanks to increased chain rigidity, bowing and warping are avoided and manageability is improved

**+ WEAR RESISTANCE: 40%**

D.I.D patented X-Rings® have a 40% greater wear resistance of any other type of O-Ring chain

**- POWER LOSS: 50%**

D.I.D X-Rings® decrease friction between side plates and reduce power loss by 50% of any other type of O-Ring chain

**ZVM-X Series specifications**

**MAXIMUM CONTROL**

Always the best traction power handling in all conditions

**ABSOLUTE RIGIDITY**

ZVM-X rigidity is 10% higher than previous ZVM2

**HIGH PERFORMANCE**

ZVM-X chains give you the best acceleration performance and pick up reaction



**VX / ZVM-X: Performance Chart**

	50 cc	350 cc
428 VX		
520 VX3	125 cc	800 cc
520 ZVM-X		250 cc 1200 cc
525 VX3	400 cc	1000 cc
525 ZVM-X		450 cc 1300 cc
530 VX3		750 cc 1100 cc
530 ZVM-X		600 cc 1400 cc



Upgraded from DID 520VT2

# 520ERV7

**RACING X-RING SOLID BUSH DIRECT**



DISP.c.c.  
**520ERV7**  
MAX. 500c.c.

**Revolutionary sealed chain for Motocross and Enduro Racing!**

The new 520ERV7 was born by breaking down the concept of "motocross chain = non-sealed chain"

**Lighter and Longer life!**

By reviewing and changing materials, 520ERV7 has 2% **lighter** weight and 15% **longer life** while maintaining the tensile strength.

**The clear choice of Top AMA Teams!**

Top AMA riders rely on 520ERV7 to achieve great position.

Enduro Racing Narrow X-Ring

CHAIN	DISP. C.C.	MAIN FEATURE
520ERV7 G&G	max 500 cc	Narrow Chain

Off Road

CHAIN	DISP. C.C.	MAIN FEATURE
520ERT3 G&G	125-450cc	Supercross Champion
520MX G&B	250-500cc	Supermotard

# 520ERS3

**RACING SDH PIN SOLID BUSH**



# 415ERZ

**RACING SDH PIN SOLID BUSH**



Ricky Brabec

# SERIES ER

EXCLUSIVE RACING

Racing Track/Off Road

**GOLD**



Tazuki Suzuki

# SERIES ER

EXCLUSIVE RACING

Racing Track/Off Road

**GOLD**



# 520ERT3

DISP.c.c.  
**520ERT3**  
MAX. 450c.c.

**RACING SDH PIN SOLID BUSH**



# 520MX

DISP.c.c.  
**520MX**  
MAX. 500c.c.

**RACING SDH PIN SOLID BUSH**

Track & Trial Racing

CHAIN	DISP. C.C.	MAIN FEATURE
415ERZ G&G	50 -125cc/2 strokes 250cc/4 strokes	Moto3
520ERS3 G&G	125-250cc	Non O-Ring for Trial
520ERV7 G&G	250-1000cc	X-Ring for MotoGP and SBK



Tony Bou



# 520DZ2



DISP.c.c.  
520DZ2  
MAX. 450c.c.

The new 520DZ2 has been upgraded with D.I.D exclusive Super Dai Hard treated pin. As a result 520DZ2 G&B has a greater wear resistance than the former DID 520DZ G&B. The combination of great wear resistance and light weight makes 520DZ2 G&B the best entry model chain for motocross.

## Motocross

CHAIN	DISP. C.C.	MAIN FEATURE
520DZ2 G&B	max 450 cc	Light weight

CHAIN	TYPE	WEIGHT (g/100L)	Tensile Strength Average		Color	Wear Resistance Index
			kN	Lbs.		
428VX	X-Ring® Chain	1,210	33,00	7,420	G&B	1,230
428HD	Solid Bushing	1,000	23,40	5,250	G&G	100
219V2 SDH	SDH & O-Ring	264	10,16	2,280	S&B	400
219HTZ SDH	SDH	249	9,80	2,200	G&G	210
219HTM DHA	DHA	249	9,80	2,200	G&B	150

## 219 SERIES Wear Resistance Index

219V2 SDH	400
219HTZ SDH	210
219HTM DHA	150
219HTM	100



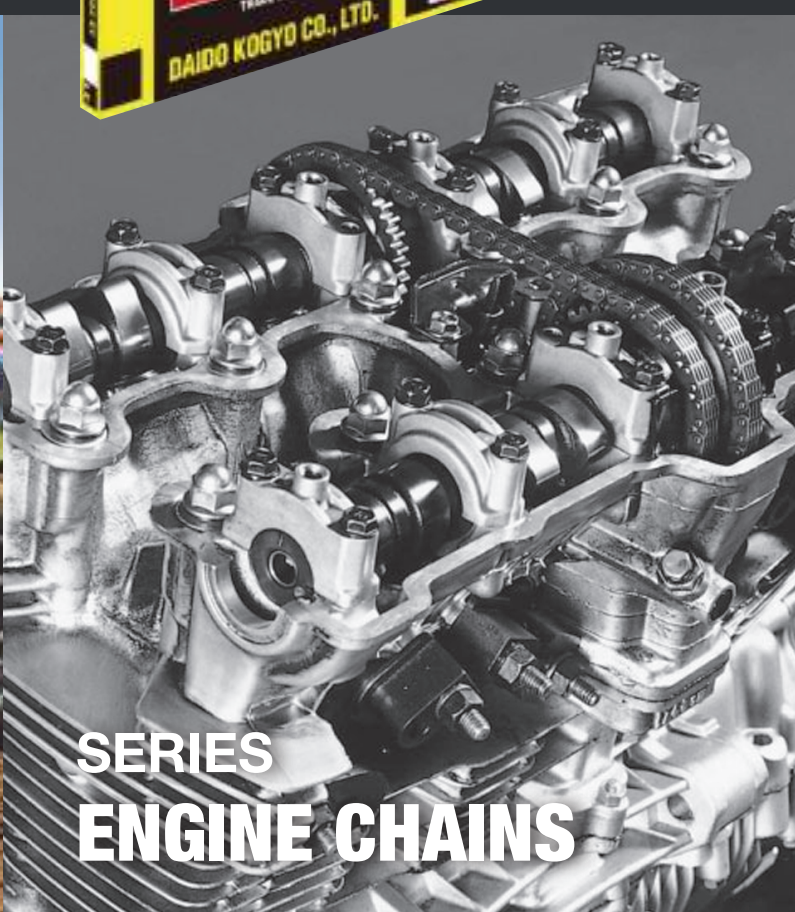
**!**  
**DON'T DO IT YOURSELF!**  
please ask a dealer to change your motorcycle or scooter engine chain



# SPECIAL



## Off Road Racing



## SERIES ENGINE CHAINS



## SERIES KART CHAINS



# 520ATV2

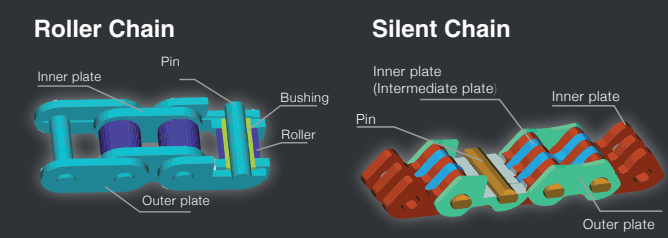


Special steel alloy is used to provide extra strength required for Quad racing.

## ATV Racing

CHAIN	DISP. C.C.	MAIN FEATURE
520ATV2 G&B	max 750 cc	Low friction

D.I.D engine chains are made from the highest quality select steel alloys that are light, yet provide maximum strength. For great durability, the D.I.D cam chains offer precision, solid bushing and shot-peened parts. Precision engineered for superior durability and smooth operation. D.I.D's special DHA and SV treatments offer increased durability through an extremely hard metallic layer on the pin surface. The unique pin-link/plate set-up offers an ideal engaging mechanism for smooth, low-friction power.



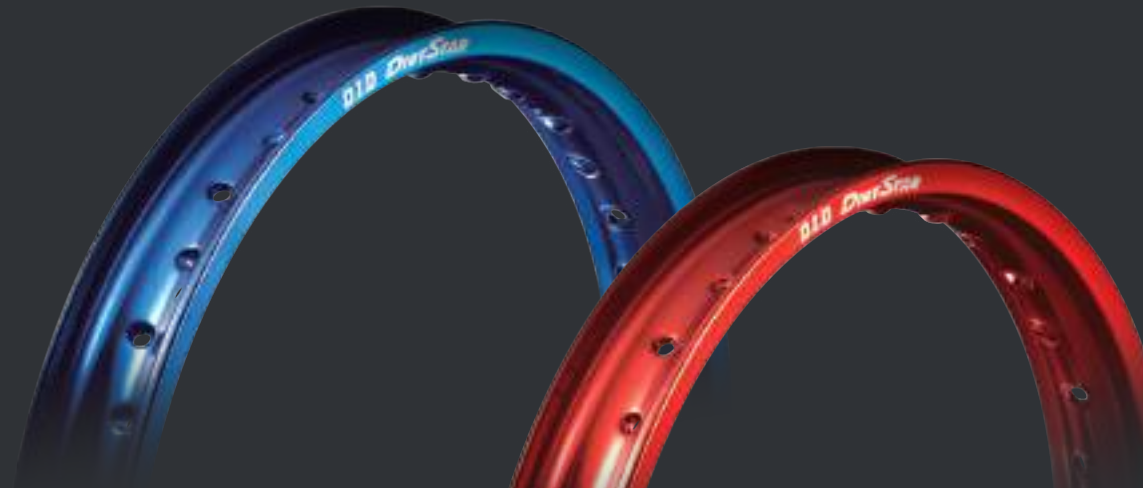
The D.I.D kart chains are renowned all over the world for high quality, durability and performance. Thanks to an undisputed success in the karting world for over 30 years, D.I.D kart chains continue to be a primary factor in the Karting market. Decades of experience and testing have lead DID to go through extra steps to perfectly complete each part on the chain. Excellent wear resistance, fatigue strength, silencing effect and shock strength capable of withstanding high-speed operation. Designed for superior durability at high rpm. Special Dai-hard treatment forms an extremely hard metallic layer on the pin surface for increased durability.



**D.I.D RIMS DIRT STAR™ ORIGINAL:**

D.I.D has succeeded in the development of light alloy aluminum rims, creating the age of today's light and strong alloy rims.

D.I.D DIRT STAR™ rims are approved by the most famous hub, spoke and nipples makers, as well as compatible with Original Equipment (OEM) wheel components from Beta, KTM, Kawasaki, Honda, Husaberg, Husqvarna, Sherco, Suzuki and Yamaha.



**D.I.D RIMS DIRT STAR™ ST-X:**

D.I.D LT-X and D.I.D ST-X are compression formed for structural integrity and consistency. These rims utilize the D.I.D's "7 series" aluminum.

D.I.D LT-X rims are the big-time winners at AMA Supercross Championships. Lightweight but stronger than competitors' strongest rim.

D.I.D ST-X rims are heavy duty rims ideally suited for all types of off road racing. Stronger than any other competitors' rim in the market.



**DIRTSTAR**™ Series Rims

**DIRTSTAR/ST-X** Series Rims



Dirt Star: light alloy rims compatible with original equipment wheel components.  
The choice of AMA Supercross & MX1 Top Riders!

Please visit [www.dideu.it](http://www.dideu.it) for a complete application chart





### D.I.D Chain Lube 420ml

<b>ANTI-WEAR</b>	Ultimate chain protection from wear
<b>ANTI-RUST</b>	Long-lasting chain protection from rust
<b>HIGHER VISCOSITY</b>	To prevent centrifugal dispersion
<b>ECOLOGIC</b>	No Freon or Ethane

### D.I.D Chain Cleaner 420ml

<b>CLEANING</b>	To eliminate impurity by a powerful airstream
<b>EASY OF USE</b>	Easy spray long nozzle
<b>HIGH PENETRABILITY</b>	Deep penetration into difficult-access cleaning points and long lasting action
<b>ECOLOGIC</b>	No Freon or Ethane

### KM500R

**New package!**  
The new box is now in metal for stronger protection and it is covered by a cardboard sleeve to prevent damages, such as scratches, to the box.

Cutting and riveting tool for D.I.D's chains

For use with D.I.D 520/525/530 chains

By changing U-holder, pin and plate it also cuts and rivets 420/428 chains

SERIES	CHAIN	DISPLACEMENT	SERIES	CHAIN	DISPLACEMENT	
STREET	<b>Non O-Ring</b>		TRIAL	<b>Non O-Ring</b>		
	420NZ3	50 - 250 cc		415ERZ G&G	50 - 250 cc	
	428NZ	50 - 125 cc		520ERS3 G&G	125 - 250 cc	
	520NZ	250 - 450 cc		<b>X-Ring</b>		
	<b>X-Ring</b>			428VX	50 - 350 cc	
	420V O-ring	50 - 125 cc		520VX3	125 - 800 cc	
	428VX	50 - 350 cc		<b>Non O-Ring</b>		
	520VX3	125 - 800 cc			420NZ3 G&B	50 - 150 cc
	525VX3	400 - 1000 cc			428NZ G&B	50 - 125 cc
	530(50)VX3	750 - 1100 cc			520DZ2 G&B	125 - 450 cc
SPORT	520ZVM-X	250 - 1200 cc	520ERT3 G&G	125 - 450 cc		
	525ZVM-X	450 - 1300 cc	520MX G&B	250 - 500 cc		
	530(50)ZVM-X	600 - 1400 cc	<b>RACING</b>	415ERZ G&G	50 - 250 cc	
RALLY & ENDURO	520ZVM-X	250 - 1200 cc		520ERS3 G&G	125 - 250 cc	
	520ERVT G&G	250 - 500 cc		<b>X-Ring</b>		
	520VX3	125 - 800 cc	520ERV7 G&G	250 - 1000 cc		
			<b>SPRINT SUPERBIKE SUPERSPORT ENDURANCE</b>			

Series

Chain

Available colors (Inner & outer plate)

SDH pin treatment

Pin Length (mm)

Roller Diameter (mm)

Inner plate Thickness (mm)

Outer plate Thickness (mm)

Weight 100 links (kg)

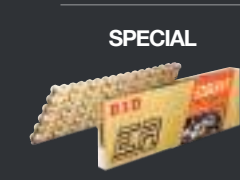
Tensile Strength Average (kN)

Wear resistance Index: Std chain = 100

Connecting Link

Rivet (ZJ)

Clip (FJ/RJ)



Series	Chain	Available colors (Inner & outer plate)	SDH pin treatment	Pin Length (mm)	Roller Diameter (mm)	Inner plate Thickness (mm)	Outer plate Thickness (mm)	Weight 100 links (kg)	Tensile Strength Average (kN)	Wear resistance Index: Std chain = 100	Rivet (ZJ)	Clip (FJ/RJ)
Non O-Ring	415ERZ	G&G	✓	13,50	7,77	1,5	1,5	0,66	20,2	410	OPTION	RJ
	520ERS3	G&G		16,75	10,16	1,8	1,8	1,15	25,9	420	OPTION	RJ
	520ERT3	G&G	✓	17,50	10,16	2,0	2,0	1,39	37,0	430	OPTION	RJ
X-RING	520MX	G&B	✓	18,60	10,16	2,2	2,2	1,56	39,7	440	✓	N/D
	520ERV7	G&G		18,85	10,30	2,0	2,0	1,55	40,0	3500	✓	N/D
	520ZVM-X	B&B o G&G		21,00	10,22	2,2	2,2	1,63	38,9	3500	✓	N/D
X-RING	525ZVM-X	B&B o G&G		23,20	10,32	2,4	2,6	2,11	46,3	4000	✓	N/D
	530(50)ZVM-X	B&B o G&G		24,90	10,32	2,4	2,6	2,20	46,3	4000	✓	N/D
	428VX	B&B o G&B		20,65	8,6	2,0	2,0	1,21	33,0	2700	OPTION	FJ
X-RING	520VX3	B&B o G&B		18,70	10,22	2,0	2,0	1,52	36,5	3500	✓	OPZION FJ
	525VX3	B&B o G&B		21,80	10,32	2,2	2,2	1,84	44,3	4000	✓	OPZION FJ
	530(50)VX3	B&B o G&B		23,30	10,32	2,2	2,2	1,94	44,3	4000	✓	N/D
O-RING	532ZLV	B&B		24,80	11,10	2,4	2,4	2,20	43,4	3300	✓	N/D
	420V	B&B		16,90	7,77	1,5	1,5	0,73	15,8	700	N/D	RJ
	630VS	B&B		25,30	11,96	2,4	2,4	2,96	48,1	2050	OPTION	FJ
X-RING	520ERVT	G&G		18,70	10,16	1,8	2,0	1,46	37,5	3500	OPTION	FJ
	520ATV2	G&B		18,75	10,22	2,0	2,0	1,55	37,5	3500	OPTION	FJ
NON O-Ring	520DZ2	G&B	✓	17,65	10,16	2,0	2,0	1,40	36	410	OPTION	RJ
	420NZ3	B&B o G&B	✓	16,75	7,77	1,8	1,8	0,82	21,9	410	N/D	RJ
	428NZ	B&B o G&B	✓	18,90	8,50	2,0	2,0	1,00	25,5	410	OPTION	FJ
	520NZ	B&B	✓	18,35	10,20	2,2	2,2	1,61	35,8	410	OPTION	FJ



The above displacement chart is for reference only; displacement limitations may vary from model to model.



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 www.facebook.com/DIDEurope

**New colors  
 for VX3 and  
 ZVM-X series!**



**SILVER**

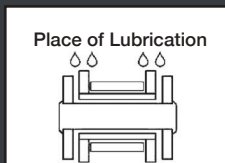
**SERIES VX3  
 Now available  
 in silver**

**SILVER**

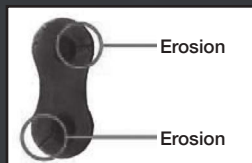
**BLACK**

**SERIES ZVM-X  
 Also available in  
 silver and black**

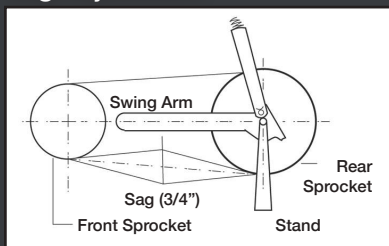
## Maintenance



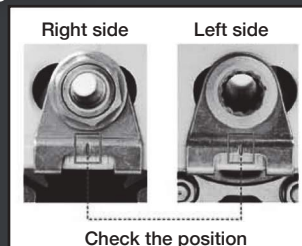
## Battery Liquid / Antifreeze Materials



## Sag Adjustment



## Sprocket Allignment



Watch Installation and Maintenance Videos on our YouTube Channel.

**D.I.D** Channel YouTube

