

## WORLD'S #1 GENUINE PARTS MANUFACTURER

### **WORLDWIDE MANUFACTURES**

D.I.D is the World's #1 original parts (OE) supplier for Japanese and European motorcycle manufacturers.





















## manufacturers.



Rigidity is D.I.D's original concept born from years of experience in MotoGP development. Rigidity in a chain means resistance to chain deformation and elongation.



LOW RIGIDITY



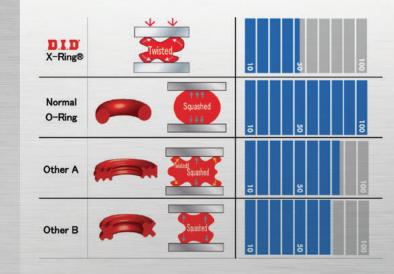
HIGH RIGIDITY

Pin flex robs your bike of its horsepower. The high rigidity of D.I.D pins means a quicker response, resistance from chain elongation, and smoother handling.

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.

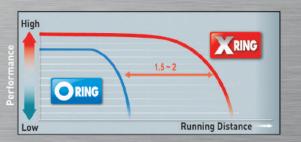


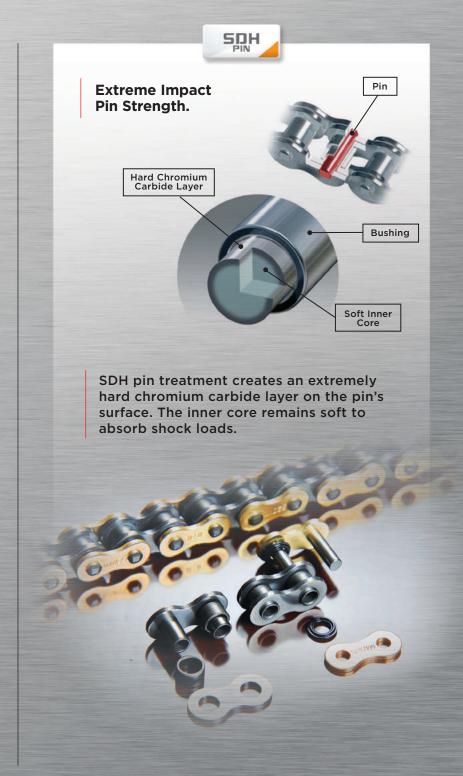
D.I.D's patended X-Ring is superior to other O-Ring designs. The X-Ring construction reduces friction by twisting between the side plate instead of being squashed. The graph below shows friction levels of the X-Ring compared to other seals.



## **ADVANCED TECHNOLOGY**

Chain elongation is caused by pin wear. D.I.D's patented X-Ring holds lubrication within the bushing increasing the pin and chain life by 1.5 - 2X.







## VR46 SERIES



## DIRECT

## VALENTINO ROSSI CHAIN



SILVER

SOLID

Official Valentino Rossi collaboration chain with patented X-Ring seals and a Rossi colored master link.

## THE DOCTOR



520Doctor - 800cc 520ZVM-X - 1200cc

525ZVM-X2 - 1300cc 530ZVM-X2 - 1400cc

## THE DOCTOR SPECIAL EDITION

THE DOCTOR BOOCC



Comes with a 520 sized 120 Link, first class chain, a stainless steel plate with the champion's signature, plastic display with a laser engraved image of Rossi, each with its own serial number. Only 10 available in North America.











OFFICIAL D.I.D -VR46 MERCH



## VXSERIES



525VX3 - 1000cc

DIRECT WIL

# WIDE 530VX3 - 1100cc RANGE OF MOTORCYCLES

GOLD

XRING

SILVER

street and off road motorcycles from 350cc to 1100cc.

D.I.D's VX Series includes the

428VX, 520VX3, 525VX3, and

530VX3 chains to for numerous

## LONGER CHAIN LIFE

D.I.D's VX Series boasts a much longer chain life than the VO Series due to the patented X-Ring technology. The 520VX3 has a 32% longer chain life than the 520VO and the 525 and 530VX3 has a 41% longer chain life!

#### **SMOOTHER HANDLING**

D.I.D's VX Series has increased rigidity in order to reduce flex, so riders can ride smoother with confidence.





## 520ERV7



DIRECT

XRING

RACING

SOLID

GOLD

## MOTOGP SPEC

D.I.D's 520ERV7 is the chosen chain of MotoGP, Superbike, and road racing teams alike.

## TOP OF THE LINE

Upgraded from the 520ERV3, the 520ERV7 boastsa 3% higher tensile strength, a 13% longer chain life, and less friction due to X-Ring improvements.

### **ROAD RACING**

Flagship model for street bikes and enduro riding.

## 520ERVT



X RING

## **ENDURO BOSS**

Upgraded from the 520VT2, the 520ERVT is now 2% lighter and has a 15% longer lifespan, all while maintaining the same tensile strength.

SOLID

## GOLD

Born from our original motocross chain, the 520ERVT now adds the benefits of an X-Ring. New offroad chain choice for the top AMA teams!

ULTIMATE OFF-ROAD X-RING CHAIN





## **OPTIMAL ATV CHAIN**

minimize heat cracking in cold weather due to severe heating and cooling of the chain during competition.

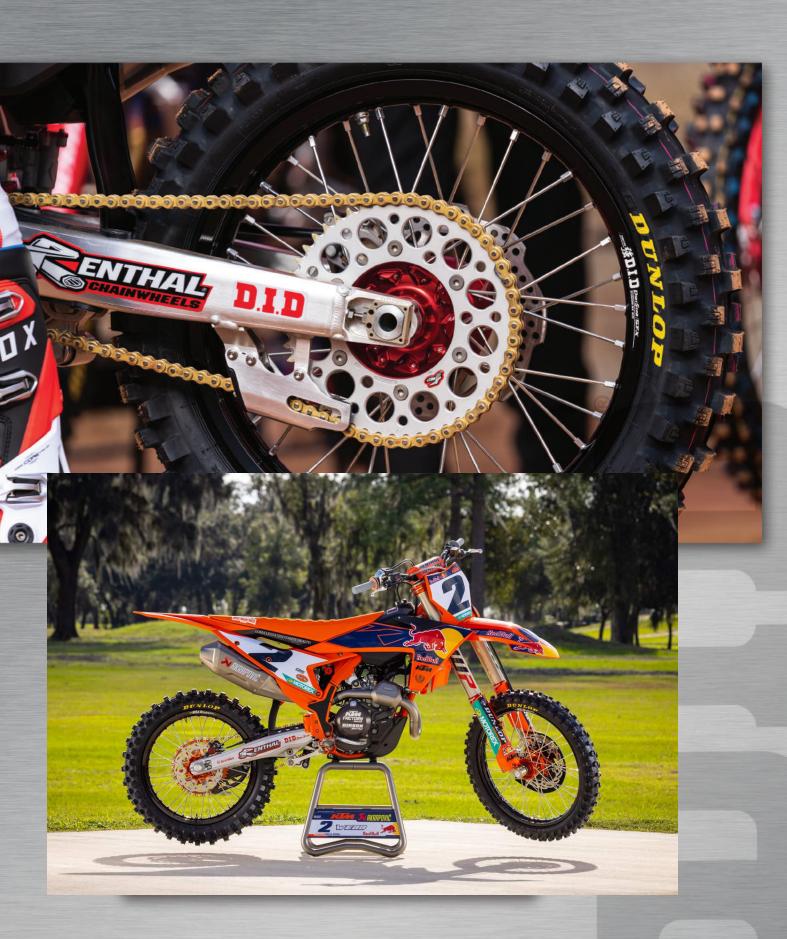
SOLID

#### **FASTER & STRONGER**

GOLD

RACING

7% lighter, 10% stronger, and 8% longer chain life than the original ATV chain.



## **415ERZ**



RIGIDITY

#### **ROAD RACING**

The 415ERZ chain is a road racing chain specifically for Moto3 Regulations.

SDH

SOLID

RACING

#### SMALL BIKE BIG PERFORMANCE

Our 415ERZ can accomodate matching sized bikes with up to 250cc's of power.

GOLD

#### **LESS WEIGHT**

Perfect size chain for your track bike to help you save on weight.

## 420NZ3



XRING

## MADE FOR FUTURE CHAMPIONS

RACING

Made for future champions, the NZ seriesincludes premium chains specifically for mini bike racing.

SOLID

COLD

## 428NZ





XRING

## DESIGNED FOR JR. CHAMPIONS

RACING

Our NZ Series is designed for mini champions and vintage bikes alike.

SOLID BUSH

GOLD

The NZ series chains are available in standard and gold & black (G&B) colors.

#### **MULTI-USE CHAINS**

This is a great all-around nonsealed chain.

**MULTIPLE COLORS** 



## 520ER53





RACING

## TRIALS TOP CHOICE

One of the top choices for trials teams such as Repsol Honda, which includes riders Takahisa Fujinami and Toni Bou.

## GOLD 51

#### STRONG, YET LIGHT

Using the latest SDH pin technology, the 520ERS3 boasts strength, but is our lightest 520 sized chain making it on-of-a-kind.

### UNMATCHED PERFORMANCE

Utilizing a rivet-style (ZJ) master link, this is an excellent choice for smaller street bikes up to 250CC, such as the GSX-250R.

## 520ERT3





#### CHAIN OF CHOICE FOR AMA TEAMS



The non-sealed 520ERT3 is our #1 selling motocross chain and is the top choice for 250 class factory race teams.



#### THE CUTTING EDGE

With a great tensile strength of 8,300 lbs and weighing in at 2.99 lbs/100 links, you can see why this is the no. 1 trusted motocross chain!

## 520DZ2





#### GREAT VALUE HIGH PERFORMANCE

RACING

The 520DZ2 is budget-friendly, high-performance racing chain designed specifically with local motocross champions in mind.

## LONGER CHAIN LIFE

Designed to meet the demand of even the most grueling MX tracks with SDH technology.

#### SDH TECHNOLOGY

The use of our patented SDH pin technology results in a longer life of your chain.such as the GSX-250R.

## 520MX



SOLID

## RACING

The 520MX boasts our highest rated tensile strength among non-sealed chains at 8,930 lbs. Perfect for the beating that chains take during tough, off-road races.



### CHAMPIONSHIP QUALITY

With numerous SX, MX, and ATVMX championships under its belt, the 520MX and its incredible strength is the top choice for 450 class factory race teams.



## NZSERIES



### **VINTAGE BIKES**

A step up from a standard chain, the NZ Series is great for vintage bikes or smaller bikes with less torque.

	_
BUSH	

## AVAILABLE SIZE

420NZ3 - 150cc	
428NZ - 100cc	
520NZ - 250cc	
525NZ - 400cc	
530NZ - 750cc	

## STANDARD SERIES



The Standard chain series is simply that; a chain without any technological advancements. A simple chain made with D.I.D precision and quality.

## SIMPLE D.I.D QUALITY

## 428D - 125cc 428HD - 125cc 520 - 250cc 525 - 400cc 530 - 400cc

## KART CHAINS

## **219HTM**



#### **REASONABLE ENTRY CHAIN**

Great chain for beginners that delivers stable performance at a low cost with a G&B finish.

## 219HTZ



## TOP PERFORMING KART CHAIN

Highly rigid, low friction non-seal chain for racing karts. Available in G&G Finish.

## 219HV



## HIGH-PERFORMANCE SEAL CHAIN

Newly developed seal ring with special reinforced pins specifically for kart racing. Available in Silver finish



#### **EASY TO LACE UP**

from 7-series aluminum alloy,

All DirtStar rims are designed to be compatible with OE hubs, spokes and nipples.

which make them stronger than stock (OE) rims.



#### **ORIGINAL** SERIES

#### **GREAT VALUE!**

20% stronger than OE rims making these a great upgrade





## 57-X SERIES

#### **MOTOCROSS MUST-HAVES**

40% stronger than OE rims and the go-to choice for AMA race teams.





## **CHAIN KIT SECTION**

Changing/upgrading your bike's drive system just became so easy, eliminating the guess-work in part numbers and fitments. Each kit contains high-quality steel JT Sprockets and a D.I.D chain to directly fit your bike. Changing your chain and sprockets at the same time are recommended to help reduce unnecessary wear.



## **STREET KIT**

## ZVM-X SUPER STREET

VX PRO-STREET X-RING CHAIN

JT SPROCKET,

high carbon steel rear and chromemoly steel countershaft sprocket designed to replace your stock OE gearing or one tooth over/under.









## OFF-ROAD KIT

## 520DZ2 MOTOCROSS CHAIN

#### 520VX3' X-RING CHAIN

#### + JT SPROCKET,

high carbon steel rear and chromemoly steel counter-shaft sprocket designed to replace your stock OE gearing or one tooth over/under.

Application chart can be found at www.didchain. com/chainkits.











## KM500R CHAIN TOOL



To be as tough as our tool, we have now introduced a **NEW metal box** for the KM500R. The D.I.D KM500R tool is a unique 3-in-1 tool with the ability to cut your chain, press-fit connecting link side plates, as well as rivet the pin head.

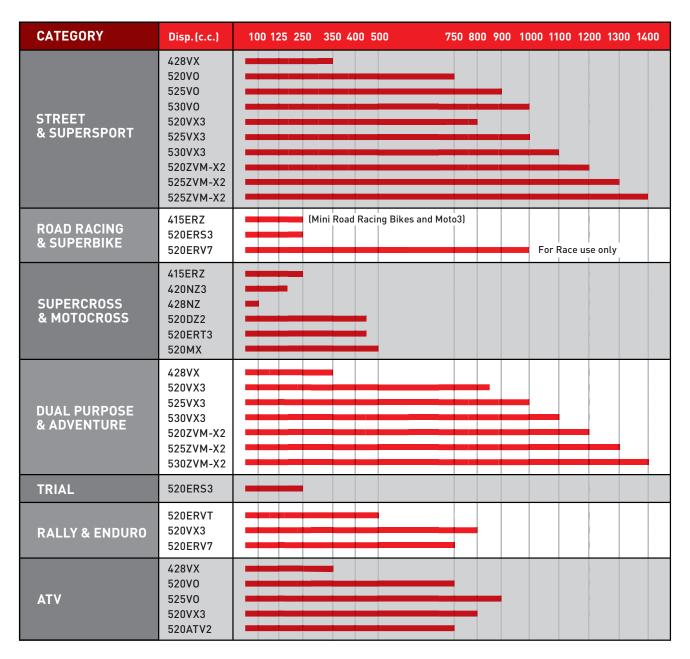
The design of the KM500R tool does not allow over-riveting and should only be used for D.I.D's ZJ rivet style master links, as well as the FJ press-fit clip style master links.

This tool may be used to cut any 520, 525, 530, or 532 sized chains.



## CHAIN SPECIFICATIONS CHARTS

## CHAIN APPLICATIONS



The above displacement chart is for reference only; displacement limitations may vary from model to model. Displacement guidelines are **NOT** applicable for converted (modified) motorcycles, chain conversions from Original Equipment Manufacturer's specifications, or racing motorcycles.

If your stock motorcycle cam with an "endless" chain, a replacement chain must be installed with a river type master link.

Please check the application chart on the D.I.D website. \*Master links are NOT interchangeable between old and new chain models.

## CHAIN SPECIFICATIONS

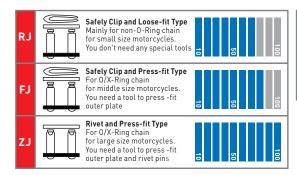
Chain	Category	Pin Length (inches)	in Length Pin Dia. (inches) (inches)	Plate Thickness		Weight/ 100L	Tensile Strength	Seal	Chain Life Index	Master Link			Max CC
				IN C	DUT	(lbs)	(lbs)			ZJ	FJ	RJ	
Exclusive	Racing Chains												
415ERZ 420NZ3 428NZ 520ERS3 520ERT3 520MX 520DZ2 520ERVT 520ATV2 520ERV7	Mini MX Mini MX Mini MX Trial Motocross Motocross Motocross Enduro ATV Baja / Super Sport	0.531 0.659 0.744 0.659 0.693 0.732 0.695 0.736 0.738 0.752	0.156 0.156 0.177 0.206 0.21 0.21 0.206 0.206 0.206 0.206	1.8 2 1.8 2	1.5 1.8 2 1.8 2 2.2 2 2 2 2	1.45 1.18 2.2 2.59 2.99 3.43 3.08 3.22 3.42 3.41	4,540 4,930 5,740 5,800 8,300 8,930 7,870 8,440 8,430 8,800	N/A N/A N/A N/A N/A N/A X X	410 410 410 410 410 410 410 3,500 3,250 3,500	Option N/A Option Option Option Option Option Option Option Option Included	NA Option Included N/A N/A N/A Included Included N/A	Included Included N/A Included Included Included Included N/A N/A N/A	250 150 100 250 450 500 450 500 750 1,000
520ZVM-X 525ZVM-X2 530ZVM-X2	Street Street Street	0.83 0.913 0.98	0.206 0.217 0.217	2.4	2.2 2.6 2.6	3.59 4.65 4.85	8,745 10,408 10,408	X X X	3,500 4,000 4,000	Included Included Included	N/A N/A N/A	N/A N/A N/A	1,200 1,300 1,400
Pro X-Rir	ng Chains												
428VX 520VX3 525VX3 530VX3	Street / ATV Street / ATV Street Street	0.813 0.736 0.866 0.931	0.197 0.206 0.217 0.217	1	2 2 2.2 2.2	2.66 3.35 4.09 4.29	7,420 8,210 9,980 9,980	X X X	2,700 3,500 4,000 4,000	Option Option Included Included	Included Included Option N/A	N/A N/A N/A N/A	350 800 1,000 1,100
Standard	O-Ring Chains												
420V 520V0 525V0 530V0 630V	Commuter Street / ATV Vintage Bikes Street / ATV Street / ATV	0.665 0.795 0.886 0.963 0.996	0.156 0.2 0.205 0.217 0.235	2 2.2 2.2	1.5 2 2.2 2.4 2.4	1.6 3.31 3.88 4.39 6.52	3,560 8,000 9,220 9,220 10,820	0 0 0 0	700 2,350 2,500 2,500 2,050	Option Option Included Included (XJ)	N/A Included Option N/A Included	Included N/A N/A N/A N/A	100 750 900 1,000 1,200
Super No	on-O-Ring Chain	s											
520NZ 525NZ 530NZ	Vintage Bikes Vintage Bikes Vintage Bikes	0.722 0.811 0.888	0.206 0.206 0.206	2.4	2.2 2.4 2.4	3.54 3.99 4.07	8,050 8,820 8,600	N/A N/A N/A	410 410 410	Option Option Option	Included Included Included	N/A N/A N/A	250 400 750
Standard	l Non-O-Ring Ch	ains											
420D 428D 428HD 520 525 530	Small Bikes Small Bikes Small Bikes Small Bikes Small Bikes Small Bikes	0.581 0.657 0.744 0.689 0.732 0.799	0.156 0.177 0.177 0.2 0.2 0.2		1.5 1.5 2 2 2 2	1.54 1.84 2.2 3.12 3.28 3.71	3,970 4,230 5,250 6,700 6,930 6,930	N/A N/A N/A N/A N/A	100 100 100 100 100 100	N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A	Included Included Included Included Included Included	80 125 125 250 400 400

#### Riveting FLARE DIMENSIONS

520DZ2 0.217" to 0.228" 520ERS3 0.217" to 0.228"

520ERT3 0.215" to 0.225"

520ERVT 0.217" to 0.228" 520ERV7 0.217" to 0.228" 520MX 0.217" to 0.228"



4-Pitch Size		52	0 Size	52	5 Size	530 Size		
415ERZ	0.165" to 0.173"	520NZ	0.217" to 0.228"	525NZ	0.217" to 0.228"	530NZ	0.217" to 0.228"	
420NZ3	0.174" to 0.187"	520V0	0.213" to 0.220"	525VO	0.217" to 0.228"	530VO	0.217" to 0.228"	
420V	0.187" to 0.195"	520VX3	0.217" to 0.228"	525VX3	0.224" to 0.236"	530ZVM-X2	0.224" to 0.236"	
428NZ	0.187" to 0.195"	520ZVM-X	0.217" to 0.228"	525ZVM-X2	0.224" to 0.236"			
428VX	0.205" to 0.217"	520ATV2	0.217" to 0.228"			•		

## D.I.D CHAIN TOOL INSTRUCTIONS

## **CHAIN CUTTING**



**1a.** Before cutting your chain, loosen it using your motorcycle's rear wheel adjusters. Position your KM500R or KM501E over your chain on the bottom side of your swingarm; cut the pin on the right side of the link you choose first. If your chain has a master link, it is easier to cut the chain at the master link.



**2a.** Set the Cutting pin location on your chain tool's U-shaped holder to the point A



3a. To align the tool's Cutting pin with the chosen pin head, turn the tool's large bolt head clockwise "by hand" until the Cutting pin comes in contact with the pin head. At this point, make sure that the cutting pin is lined up with the center of the pin you wish to push out.



**4a.** Use a 27mm closed in wrench to hold firm the body of your chain tool while using a closed end 19mm wrench on the tool's hexagon bolt head to tighten. It will be easier to tighten the bolt if you position your wrenches 30° apart.



**5a.** Turn 19mm wrench clockwise on the tool's Hexagon bolt head to push the pin completely out.



**6a.** After pushing the pin out, disassemble the chain tool from the chain.

#### PRESS FITTING CONNECTING LINK SIDE



**7a.** Connect the new chain to the old chain using either a wire or connecting link. Shift transmission into neutral and slowly pull the old chain from under the swingarm toward the rear which then pulls the new chain from the top towards the countershaft sprocket. When new chain goes completely around the front sprocket and out under the swingarm, disconnect the old chain and pull both ends together under the center of the swingarm.



**8a.** Before installing the connecting link, be sure to put a heavy coat of the supplied grease into the holes of the bushings of the new chains' links, and on the surface of the connecting link's pins. If you are installing an O-Ring or X-Ring® chain, don't forget to put heavily greased ORings or X-Rings on the pins between the sideplates on both sides of the chain.



9a. With the inside of the connecting link pushed into place holding the chain together with the pins sticking out the outside of the chain, slide the O-Rings/X-Rings® into place and temporarily press the other side plate on the pins by hand. Set the Cutting pin location on your chain tool's Ushaped holder to the point A position.



10a. Slide the U-shaped portion of the tool overthe inside of the connecting link. Care-fully line up the dimples on the inside of the U-shaped holder with the pin heads of the connecting link. The Cutting pin also needs to be flipped over to where the rivet side is pointed out. Fit the Tool body together and position the Plate holder onto the sideplate that needs to be pressed on. (For FJ clip type links, flip Plate holder over.) Slide the pin's riveting side into the Plate holder and slide the pin side into the inside of the tool.

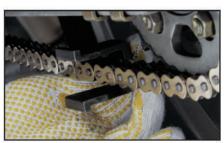


11a. Hold the hexagon part of the tool body with 12a. After pressing the sideplate on, disassema 27mm closed end wrench and turn the bolt with a 19mm closed in wrench clockwise until the top of the pins make contact with the groove in the Plate holder.



ble the chain tool and remove it from the chain. The next step is to flare out the pins heads for ZJ (Rivet type) or installing the slide clip for the FJ (Clip type) master link.

#### RIVETING ZJ CONNECTING LINK PIN



**13a.** Position the U-shaped holder as seen

13b. For clip type (FJ) install the open end of the clip so that it faces in the opposite direction of the chain drive direction.



**14a.** Set aside the Plate Holder and set the pin on the tool body to the B position to flare out the pin heads.



**15a.** Hold the hexagon part of the tool body by with a 27mm closed in wrench, and the bolt head with a 19mm closed end wrench: turn clockwise until the flare part of the pin head makes contact with the surface of the side plate.



**16a.** Example of proper flared pin head. If your pin heads are not flared to this extent, Realign chain tool and flare pin heads until they look like the above photo. If your pin heads have cracks or the connecting link is stiff when flexed, remove connecting link and install a new one.

#### 160 ELADE DIMENSIONS

IDA. FLAKE DIMENSIONS			
5.3 to 5.6mm	520V0	5.5 to 5.8mm	520ERV7
5.5 to 5.8mm	525V0	5.5 to 5.8mm	520ERVT
5.5 to 5.8mm	530V0	5.5 to 5.8mm	520ATV2
5.3 to 5.6mm	428VX	5.5 to 5.8mm	520MX
5.5 to 5.8mm	520VX3	5.5 to 5.8mm	520ERT3
5.7 to 6.0mm	525VX3	5.5 to 5.8mm	520DZ2
5.7 to 6.0mm	530VX3	5.5 to 5.8mm	520ERS3
5.5 to 5.8mm		4.2 to 4.4mm	415ERZ
5.5 to 5.8mm	520VR46	4.7 to 4.9mm	428NZ
5.7 to 6.0mm	525VR46	5.5 to 5.8mm	520NZ
5.5 to 5.8mm	520ZVM-X	5.5 to 5.8mm	525NZ
5.7 to 6.0mm	525ZVM-X	5.5 to 5.8mm	530NZ
5.7 to 6.0mm			
5.7mm to 6.0mm	.*525ZVM-X, 53	30ZVM-X, 525VX3 & 530VX3	6

\*Note: Make sure that the Cutting pin has a groove if you are riveting the 525ZVM-X, 530ZVM-X, 525VX3 and 530VX3 chains. These chains can not be riveted by the old Cutting pins.

KM500R **Cutting and** Riveting Pin

