

D.I.D.[®]
POWERED by TECHNOLOGY

MOTORCYCLE
CHAIN & RIM

CATALOG 2018 



Uncompromised Quality "D.I.D" for

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).

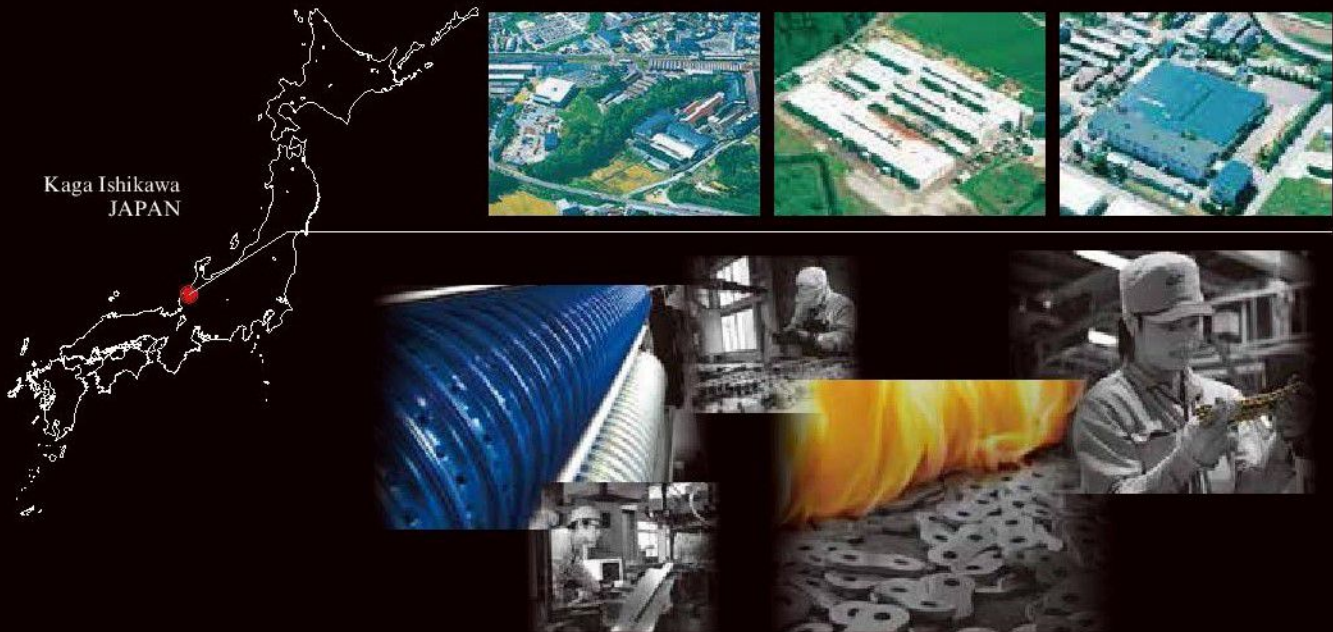
The D.I.D genuine parts that are supplied to numerous motorcycle manufacturers have worldwide reputation for superior quality and reliability.



all riders the word over since 1933

All Made in Japan

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.



Race Proven Technology

Our support riders



Moto GP / Valentino Rossi



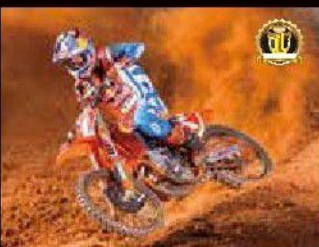
Moto GP / Jorge Lorenzo



Moto GP / Andrea Dovizioso



Moto GP / Cal Crutchlow



AMA SX Champion / Ryan Dungey



AMA SX / Ken Roczen



AMA SX / Eli Tomac



AMA SX / Chad Reed

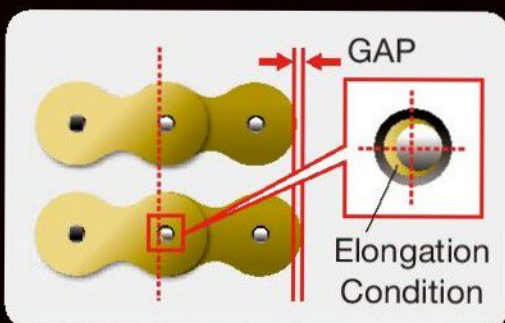
D.I.D.[®]

Advanced Technology



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

1. LONG LIFE



Chain elongation is caused by pin wearing.
X-Ring can keep grease inside bushing so that the chain can increase the chain life by 1.5 - 2 times

2. HALF THE POWER LOSS

SEAL COMPARISON CHART
[Power Robbing Pressure Between Plates]

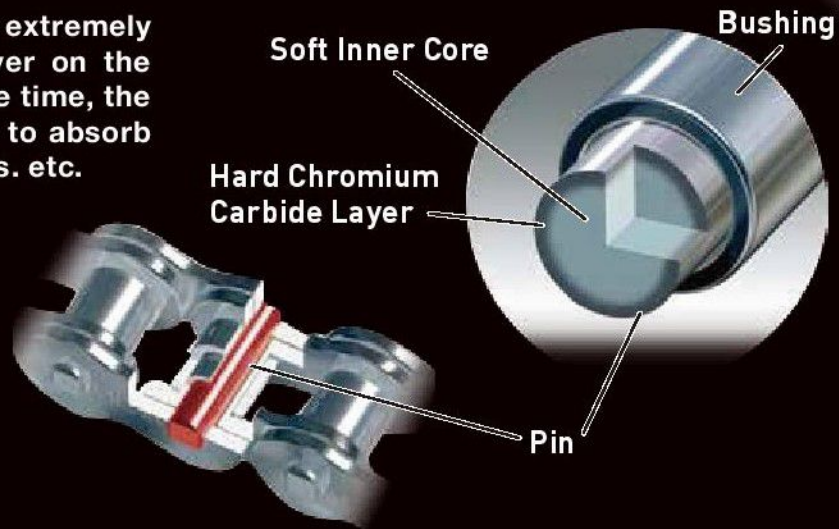
	Seal Shape	Friction Index
D.I.D. X-Ring[®]	Twisted	10
Normal O-Ring	Squashed	50
Other A	Twisted Squashed	50
Other B	Squashed	50

The X-Ring's construction reduces friction by twisting the side plates instead of being squashed.

SDH PIN

Extreme Impact Pin Strength

SDH pin treatment creates an extremely hard Chromium Carbide Layer on the pin's surface. But at the same time, the inner core is maintained soft to absorb shock loads of extreme jumps, etc.



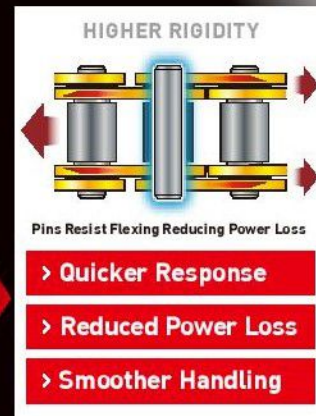
High RIGIDITY

'RIGIDITY' is D.I.D's Original Concept born from years of experiences in MotoGP Development!!

Rigidity in a chain means resistance to chain deformation and elongation.



Improving the real world chain performance that riders can actually feel

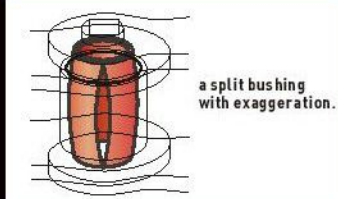


SOLID BUSH

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

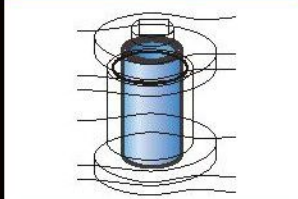




Photo by : AFG Motosports

Feel the Full Power of High Performance Machines

ZVM-X series

Available Size

- 520ZVM-X — 1200cc
- 525ZVM-X — 1300cc
- 530ZVM-X — 1400cc



- High RIGIDITY**
- X-RING**
- RACING**
- SOLID BUSH**
- GOLD**
- SILVER**

Strong Chain for Superbikes

D.I.D's ZVM-X Series has greater strength than the VX Series and is designed for heavyweight motorcycles with Tremendous Torque and Horsepower.

Longest Wear Life

The twisting action of the X-Ring® increases its sealing performance and its four contact points minimize power loss.

Quicker Response

The ZVM-X Series' High Rigidity, born from our experience in MotoGP, means greater resistance to stretching under load.

VX series

Available Size

428VX	350cc
520VX2	750cc
525VX	1000cc
530VX	1100cc

High RIGIDITY

X-RING

SOLID BUSH

GOLD



Wide Range of Motorcycles

D.I.D's VX Series include the 428VX, 520VX2, 525VX and 530VX chains to fit numerous street and off road motorcycles from 350cc to powerful 1000cc machines.

Best Value

D.I.D's VX Series are high performance, low friction X-Ring® chains available at a low economical price.

Smoother Handling

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



520VO

Available Size

520VO	750cc
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High RIGIDITY

O-RING

SOLID BUSH



Good for your bike

Applicable for Street Motorcycles, Off-road Motorcycles and ATV's up to 750cc. Especially Ninja 300, CBR250 etc.

Affordable price but not cheap specs.

D.I.D's top quality O-Ring chain are quad stake riveted with solid bushings for super superior strength and long life.

ROAD RACING



Ever Evolving, Cutting Edge Specifications

Valentino Rossi

Different Applications,
Same Top Quality



Chad Wiener

520ERV3



High RIGIDITY

X-RING

RACING

SOLID DUSH

GOLD

MotoGP Spec

D.I.D's 520ERV3 is the MotoGP chain's younger brother, sporting a very close sibling resemblance in specifications.



Weight Saving

The Pin Heads of the 520ERV3 are dimpled to minimize weight without reducing strength.

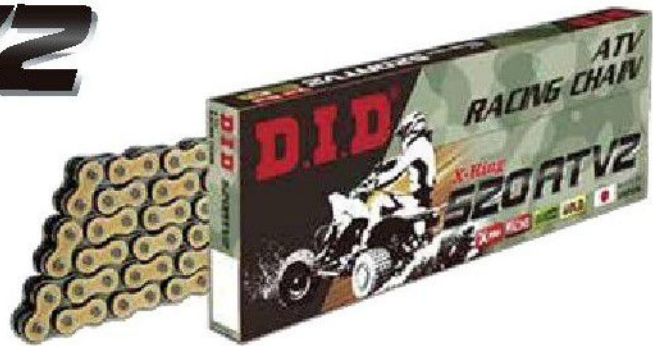


415ERZ

415ERZ is designed for the Moto3 Regulations that requires a higher performance chain.



New 520 ATV2



X-RING RACING SOLID PLUSH GOLD

Designed for ATV Racing

Special steel alloy is used to minimize heat cracking in cold weather due to serve heating and cooling during competition.

Faster & Stronger

7% weight saving , 10% strengthening and 8% Longer wear resistance.

520VT2



X-RING RACING SOLID PLUSH GOLD

Narrow X-Ring®

The 520VT2 is designed for Enduro Racing motorcycles that can not accommodate a wider O-Ring chain due to clearance limitations.

Long Life

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



From Mini Bikes to AMA SX/MX Pros, D.I.D Technology Wins Races!

AMA SX Season Points 2017

Position	Rider	Chain
1	Ryan Dungey	DID 520MX
2	Eli Tomac	DID 520ERT2
3	Cole Seely	DID 520ERT2
4	Marvin Musquin	DID 520MX
5	Jason Anderson	-

*Season Points after Round 10 of 17



520ERT3



RACING

SDH PIN

SOLID PUSH

GOLD

The Cutting Edge

25% greater "Anti-shock performance" and 5% higher tensile strength without changing the weight.

The Proven of Top AMA teams

New 520ERT3 chain is chosen by AMA factory teams, such as Honda, Yamaha, Kawasaki, Suzuki and KTM

520MX

RACING **SDH PIN** **SOLID BUSH** **GOLD**



Toughest offroad chain

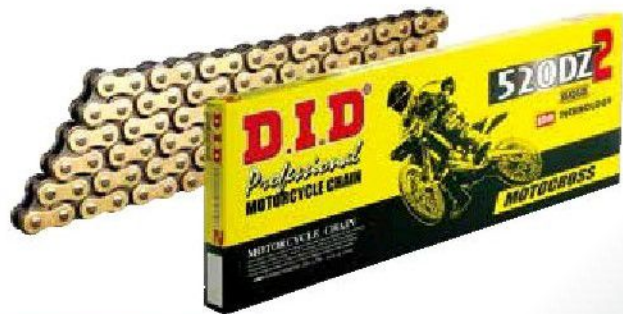
This chain has the highest tensile strength and SDH pin technology.

For rough and muddy condition

This super strong chain is the one you can depend on to handle toughest race.

520DZ²

RACING **SDH PIN** **SOLID BUSH** **GOLD**



Great value high performance chain

520DZ2 is a high performance chain available at an affordable price.

Two times longer life than previous 520DZ

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

420NZ₃ / 428NZ

RACING **SDH PIN** **SOLID BUSH** **GOLD**



Made For Future Champions

D.I.D never compromises even for Mini bike racing chain. All NZ series has solid bushing and SDH treatment.



**Made in Japan
Proven by
AMA Results**

D.I.D DIRTSTAR®

Ryan Dungey

STX series

SX CHAMPION

40% stronger than OE rims



Original series

GREAT VALUE

20% stronger than OE rims



AMA SX Season Points 2017



Position	Name	Rim
1	Ryan Dungey	DIRTSTAR
2	Eli Tomac	DIRTSTAR
3	Cole Seely	DIRTSTAR
4	Marvin Musquin	DIRTSTAR
5	Jason Anderson	-

*Season Points after Round 10 of 17

Stronger Than OE Rims

All DirtStar® rims are made from 7 series aluminum alloy and stronger than stock (OE) rims.

Easy to Lace Up

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



Chain kit

User friendly

Exact chain and sprockets are in side.
You don't have to check your part numbers every time.

Cover all popular bikes

Our line up is covering Honda, Kawasaki, Suzuki, Yamaha and KTM.
*Please visit our website and check the application.

High Quality Steel Sprocket (JT Sprocket)

high carbon steel rear sprockets for maximum durability.
Chromemoly steel countershaft sprockets for superior strength.

For Street



High RIGIDITY

X-RING

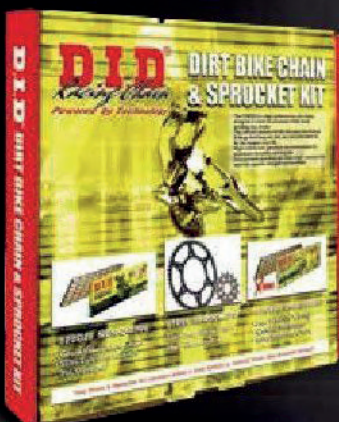
SOLID BUSH

GOLD

Feature ZVM-X Super Street
or VX Pro-Street X-Ring® Chains

Designed to replace your stock
OE gearing

For Off Road

**X-RING**

RACING

SOLID BUSH

GOLD

SDI PIN

520DZ2 motocross race chain or
a low friction 520VX2 X-Ring® chain.

Kits are designed to replace
your stock OE gearing or one tooth
over or under rear sprockets.

Chain Applications

CATEGORY	Disp. (c.c.)	100	125	250	350	400	500	750	800	900	1000	1100	1200	1300
STREET & SUPERSPORT	428VX	█												
	520VO	█		█										
	520VX2	█		█										
	525VX	█		█		█								
	530(50)VX	█		█		█		█						
	520ZVM-X	█		█		█		█		█				
	525ZVM-X	█		█		█		█		█		█		
	530(50)ZVM-X	█		█		█		█		█		█		█
ROAD RACING & SUPERBIKE	415ERZ	█												
	520ERS3	█												
	520ERV3	█		█		█		█		█		█		█
SUPERCROSS & MOTOCROSS	415ERZ	█												
	420NZ3	█												
	428NZ	█												
	520DZ2	█		█										
	520ERT3	█		█										
	520MX	█		█										
DUAL PURPOSE & ADVENTURE	428VX	█												
	520VX2	█		█										
	525VX	█		█		█								
	530(50)VX	█		█		█		█						
	520ZVM-X	█		█		█		█		█				
	525ZVM-X	█		█		█		█		█		█		
	530(50)ZVM-X	█		█		█		█		█		█		█
TRIAL	520ERS3	█												
RALLY & ENDURO	520VT2	█		█										
	520VX2	█		█										
	520ERV3	█		█										
ATV	428VX	█												
	520VO	█		█										
	520VX2	█		█										
	520ATV2	█		█										

*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 required size chain, or racing motorcycles. If your stock motorcycle came with an "endless" chain, a replacement chain must be installed with a rivet type connecting link.

Master links are NOT interchangeable between old and new chain

The 415ERZ replaces the 415ER chain. 415ERZ marked on the side plate and box.
The 520DZ2 replaces the 520DZ chain. 520DZ2 marked on the side plate and box.

Chain Name

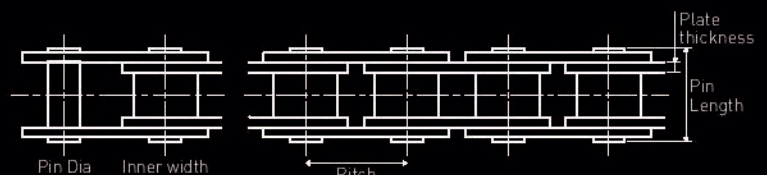


you can see the name on outerplates


ex **5 25 VX**

Chain pitch (link length) | Chain Type

Chain width (Innerwidth)



D.I.D No.	Category	Pin Length		Pin Dia		Plate thickness		Weight (100L)		Tensile Strength		Seal	Chain life Index Wear resistance	M/L		
		mm	inch	mm	inch	In	Out	Kgs	Lbs	KN	Lbs			ZJ	FJ	RJ
Exclusive Racing Chains																
415ERZ	Min MX / sports	13.50	0.531	3.96	0.156	1.5	1.5	0.66	1.45	20.20	4,540	N/A	410	Option	NA	Included
420NZ3	Mini MX	16.75	0.659	3.96	0.156	1.8	1.8	0.82	1.18	21.90	4,930	N/A	410	N/A	Option	Included
428NZ	Mini MX	18.90	0.744	4.50	0.177	2.0	2.0	1.00	2.20	25.50	5,740	N/A	410	Option	Incl	N/A
520ERS3	Trial	16.75	0.659	5.23	0.206	1.8	1.8	1.18	2.59	25.88	5,800	N/A	410	Option	N/A	Included
520ERT3	Motocross	17.60	0.693	5.34	0.210	2.0	2.0	1.36	2.99	37.00	8,300	N/A	430	Option	N/A	Included
520MX	Motocross	18.60	0.732	5.33	0.210	2.2	2.2	1.56	3.43	39.70	8,930	N/A	440	Option	N/A	Included
520D22	Motocross	17.65	0.695	5.23	0.206	2.0	2.0	1.40	3.08	35.00	7,870	N/A	410	Option	N/A	Included
520VT2	Enduro	18.70	0.736	5.23	0.206	2.0	2.0	1.49	3.28	37.50	8,440	X	3,060	Option	Included	N/A
520ATV2	ATV	18.75	0.738	5.23	0.206	2.0	2.0	1.55	3.42	37.30	8,430	X	3,250	Option	Included	N/A
520ERV3	Baja / Super Sports	18.60	0.732	5.33	0.210	2.0	2.0	1.50	3.30	38.50	8,660	X	3,100	Option	N/A	N/A
Super X-Ring chains																
520ZVM-X	Street riding	21.00	0.830	5.23	0.206	2.2	2.2	1.63	3.59	38.90	8,745	X	3,500	Included	N/A	N/A
525ZVM-X	Street riding	23.20	0.913	5.50	0.217	2.4	2.4	2.11	4.65	46.30	10,408	X	4,000	Included	N/A	N/A
530ZVM-X	Street riding	24.90	0.980	5.50	0.217	2.4	2.4	2.20	4.85	46.30	10,408	X	4,000	Included	N/A	N/A
Pro X-Ring Chains																
428VX	Street riding / ATV	20.65	0.813	5.00	0.197	2.0	2.0	1.21	2.66	33.00	7,420	X	2,700	Option	Included	N/A
520VX2	Street riding / ATV	18.70	0.736	5.23	0.206	2.0	2.0	1.52	3.35	36.50	8,210	X	3,500	Option	Included	N/A
525VX	Street riding	21.80	0.858	5.50	0.217	2.2	2.2	1.84	4.05	41.00	9,220	X	3,600	Included	Option	N/A
530VX	Street riding	23.30	0.917	5.50	0.217	2.2	2.2	1.94	4.27	41.00	9,220	X	3,800	Included	N/A	N/A
High Standard O-Ring																
420V	Commute	16.90	0.665	3.96	0.156	1.5	1.5	0.73	1.60	15.80	3,560	O	700	Option	N/A	Included
520VO	Street / ATV	20.20	0.795	5.08	0.200	2.0	2.0	1.50	3.31	35.60	8,000	O	2,350	Option	Included	N/A
630V	Old bikes	25.30	0.996	5.96	0.235	2.4	2.4	2.96	6.52	48.10	10,820	O	2,050	[X]	Included	N/A
Super Non-O-ring																
520NZ	Vintage bikes	18.35	0.722	5.23	0.206	2.2	2.2	1.61	3.54	35.80	8,050	N/A	410	Option	Included	N/A
525NZ	Vintage bikes	20.60	0.811	5.23	0.206	2.4	2.4	1.81	3.99	39.20	8,820	N/A	410	Option	Included	N/A
530NZ	Vintage bikes	22.55	0.888	5.23	0.206	2.4	2.4	1.85	4.07	38.30	8,600	N/A	410	Option	Included	N/A
Standard / Naked Chains																
420D	Small Bikes	14.75	0.581	3.96	0.156	1.5	1.5	0.70	1.54	17.70	3,970	N/A	100	N/A	N/A	Included
428D	Small Bikes	16.70	0.657	4.50	0.177	1.5	1.5	0.84	1.84	18.80	4,230	N/A	100	N/A	N/A	Included
428HD	Small Bikes	18.90	0.744	4.50	0.177	2.0	2.0	1.00	2.20	23.40	5,250	N/A	100	N/A	N/A	Included
520	Small Bikes	17.50	0.689	5.08	0.200	2.0	2.0	1.42	3.12	29.80	6,700	N/A	100	N/A	N/A	Included
525	Small Bikes	18.60	0.732	5.08	0.200	2.0	2.0	1.49	3.28	30.80	6,930	N/A	100	N/A	N/A	Included
530	Small Bikes	20.30	0.799	5.08	0.200	2.0	2.0	1.68	3.71	30.80	6,930	N/A	100	N/A	N/A	Included

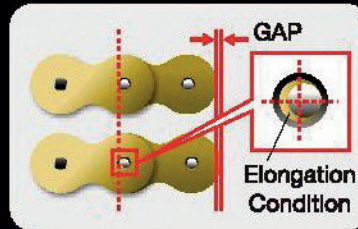
RJ	 <p>Safely Clip and Loose-fit Type Mainly for non-O-Ring chain for small size motorcycle. You don't need any special tools.</p>	
FJ	 <p>Safely Clip and Press-fit Type For O/X-Ring chain for middle size motorcycles. You need a tool to press-fit outer plate.</p>	
ZJ	 <p>Rivet and Press-fit Type For O/X-Ring chain for large size motorcycles. You need a tool to press-fit outer plate and rivet pins.</p>	

Riveting FLARE DIMENSIONS

	520 size	525 size	530 size
520V	0.213" to 0.220"	525NZ	0.217" to 0.228"
520ATV	0.217" to 0.228"	525V	0.217" to 0.228"
520DZ		525VM2	0.217" to 0.228"
520ERT2		525VX	0.224" to 0.236"
520ERV3		525ZVM2	0.217" to 0.228"
520MX		525ZVM-X	0.224" to 0.236"
520NZ		530ZVM-X	0.224" to 0.236"
520VM		532ZLV	0.217" to 0.228"
520VT2			
520VX2			
520VM2			
520ZVM-X			

Replacement & Maintenance

Chain elongation(Pin wearing)



0.01 inch gap * 120 links
= 1.2 inch gaps!!

Chain life X-Ring:15K~20K miles / O-Ring:10K miles

Maintenance

Lubrication Intervals

- Every 500km (about 300miles)
- After ride in wet weather conditions

*Chain should be cleaned every 1,000km (about 600miles)



Ultraviolet rays, dust and antifreezing agent can damage to X-Ring.
So cleaning and lubricating are very important for your chain life.

Lubricating

- Lubricating Point

1. Between outer links and inner links for the prevention of elongation.
2. Between bushings and inner plates for noise reduction and protection against wear and impact damage on bushings and rollers.

Notes

1. Lubricate shortly after riding

While the motorcycle is moving, the chain temperature is 20 - 30 degrees higher than air temperature. As a result of the higher temperature, the lubrication oil reaches every parts easily.

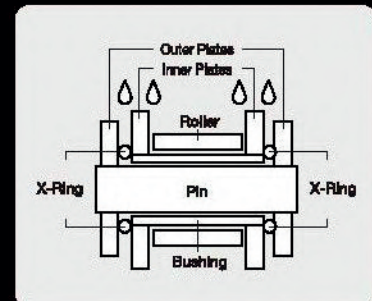
2. Over - lubrication is not necessary

If there is too much lubrication oil on the chain, it will spatter when the chain starts to move.

3. Check your chain after tough riding

Circuit racing or long riding on a highway will result in stress on the chain.

We recommend checking your chain and subsequently lubricating it after such riding.

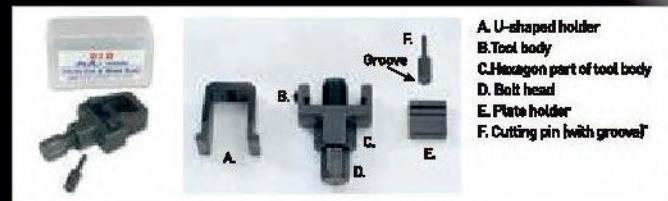


Replacement tool

D.I.D KM500R tools

These unique tools are designed to cut chain, press fit connecting link side plates, and rivet pin heads. These tools are for use with D.I.D's ZJ rivet connecting link only.

The KM500R tools may be used to cut any 520, 525, 50[530] or 532 chains. They may also be used to press side plates on to FJ press fit clip type connecting links.



About how to use other manufacture's tools, please contact them

D.I.D
DIRTSTAR
RIMS

D.I.D[®]

member of the

