



on/off road  
catalogue 2016

**D.I.D.**<sup>®</sup>

**POWERED by TECHNOLOGY**





best riders' choice

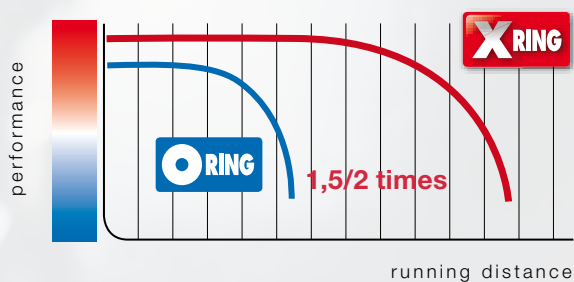
**D.I.D.**<sup>®</sup>

POWERED by TECHNOLOGY

### Friction Performance

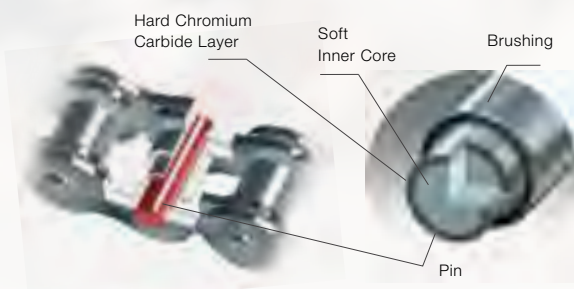


### Endurance Performance



### Advanced Technology

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





## 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.



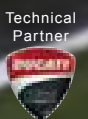
## World's No.1 Genuine Parts Manufacturer

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 2015). The D.I.D genuine parts that are supplied to numerous motorcycle manufacturers have worldwide reputation for superior quality and reliability.



## 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.



Higher Rigidity

DID's Patented X-Ring

SHD Pin Treatment

Seamless Solid Bushing

Designed for Racing

Gold Finish







Valentino Rossi

movistar  
YAMAHA  
OFFICIAL SPONSOR  
MotoGP Team 2016



Ricky Brabec

HRC



High RIGIDITY

X-RING

SOLID BUSH

GOLD

Street

Off Road

CHAIN	DISP. C.C.	MAIN FEATURE
428VX	50-350cc	X-Ring Best price / quality ratio in the market
520VX2	125-750cc	

CHAIN	DISP. C.C.	MAIN FEATURE
428VX	50-350cc	
520VX2	125-750cc	X-Ring Best price / quality ratio in the market
525VX	400-900cc	
530VX	750-1000cc	

# SERIES VX | Price/Quality Ratio for High Performance

## VX Series specifications

### + RIGIDITY

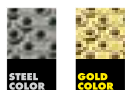
Thanks to increased chain rigidity, bowing and warping are avoided and manageability is improved

### + 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



Available in B&B (inner and outer plate in black) or G&B (outer plate in gold and inner plate in black).



## VX/ZVMX: Perform

520 VX2	125 cc
520 ZVM-X	250 cc
525 VX	400 cc
525 ZVM-X	
530 VX	
530 ZVM-X	



Technical Partner  




High RIGIDITY

X RING

RACING

SOLID BUSH

GOLD

*Sport-Tourer & Sportive*

CHAIN	DISP. C.C.	MAIN FEATURE
520ZVM-X	250 - 1200cc	Super strong Longest wearing
525ZVM-X	400 - 1300cc	
530ZVM-X	600 - 1400cc	

# SERIES ZVM-X | High Power Super Wear Resistance

## Performance Chart



### 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

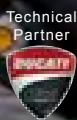
ZVM-X chains give you the best acceleration performance and pick up reaction

Available in B&B (inner and outer plate in black) or G&G (inner and outer plate in gold).





Andrea Iannone



Ryan Dungey



**520ERV3**



**520ERT2**



# SERIES *ER* | Track/Off Road Driven At Higher Speeds



**520MX**



## Racing Off Road

CHAIN	DISP. C.C.	MAIN FEATURE
420NZ3 G&B	50-150cc	Mini cross
428NZ G&B	50-125cc	Mini cross
520ERT2 G&G	125-450cc	Supercross Champion
520MX G&B	250-500cc	Supermotard

## Track & Trial Racing

CHAIN	DISP. C.C.	MAIN FEATURE
415ERZ G&G	50 -125cc/2 strokes	Moto3
	250cc/4 strokes	
520ERS2 G&G	125-250cc	Non O-Ring for Trial
520ERV3 G&G	250-1000cc	X-Ring for MotoGP and SBK



Available in G&B (outer plate in gold and inner plate in black)







Kevin Benavides



**520VT2**



*Enduro Racing Narrow X-Ring*

CHAIN	DISP. C.C.	MAIN FEATURE
520VT2 G&B	max 500 cc	Narrow Chain

This narrow chain is now upgraded with the low friction D.I.D X-Ring for greater performance and longer wear. The 520VT2 is designed for Enduro racing motorcycles that can not accommodate a wider sealed chain due to clearance limitations.

**SERIES SPECIAL** | for Off Road Racing



**520DZ2**



*Value Chain for Mx with SDH PIN Technology*

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

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.



**520ATV**

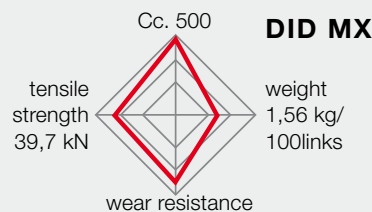
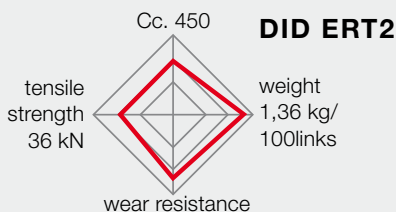
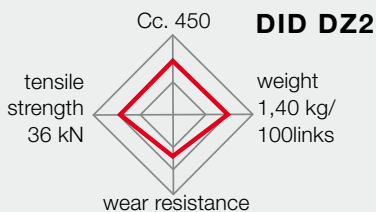


*ATV Racing X-Ring*

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

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

**Performance Chart**



Evgeny Bobryshev



**TSUYOI 強 D.I.D DIRT STAR/STX**  
STRONG MX RIM

**KARUI 輕 D.I.D DIRT STAR/LTX**  
LIGHT MX RIM

## SERIES **DIRT STAR™**

## Rims

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 DIRT STAR™ LT-X AND ST-X RIMS:**

the choice of AMA Supercross & MX1 Top Riders!

**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.

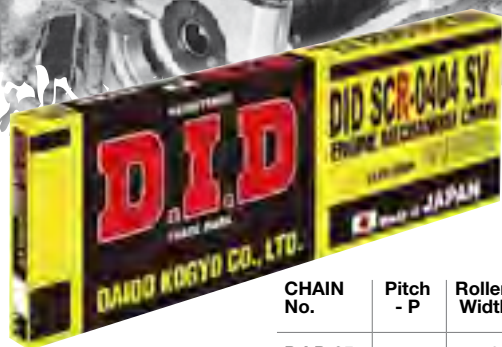
**D.I.D LT-X** rims are the big-time winners at AMA Supercross Championships. Lightweight but stronger than competitors' strongest rim.

**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.



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





CHAIN No.	Pitch - P	Roller Link Width - W	Roller Dia - D	Pin - E	Plate - T
D.I.D 25	6.35	3.18	3.30	7.80	0.72
D.I.D 25H		3.18	3.30	9.00	1.00



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

## SERIES ENGINE CHAINS

## SERIES KART CHAINS

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.

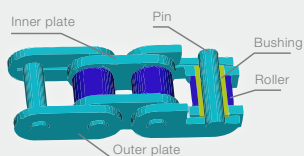
The unique pin-link/plate set-up offers an ideal engaging mechanism for smooth, low-friction power.

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.

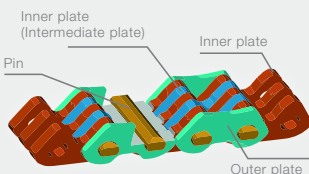
Decades of experience and testing have lead DID to go through extra steps to perfectly complete each part on the chain.

- **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.

Roller Chain



Silent Chain



CHAIN No.	Pitch - P	Lacing	W	E	H	Ave. Tensile Strength		Approx. Weight (kg/m)
						kN	kgf	
DID SCA 0404A SV	6.35	2 X 3	6.00	3.20	6.70	6.27	640	0.161
DID SCA 0409A SV		3 X 4	8.10	5.10		9.81	1.000	0.238
DID SCA 0412A SV		4 X 5	11.00	7.15		12.26	1.250	0.316
DID SCR 0404 SV	6.35	2 X 3	6.00	3.20	9.50	6.93	705	0.172
DID SCR 0409 SV		3 X 4	8.10	5.10		10.00	1.020	0.255
DID SCR 0412 SV		4 X 5	10.30	7.15		13.23	1.350	0.322

### 219 SERIES Wear Resistance Index

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

CHAIN No.	Type	Weight (g/100L)	Tensile Strength kN	Average Lbs.	Color	Wear Resistance Index
428VX	X-Ring® Chain	1,210	33	7,420	G&B	1,230
428HD	Solid Bushing	1,000	23,4	5,250	G&G	100
219V2 SDH	SDH & O-Ring	264	10.16	2,280	S&B	400
219HTZ SDH	SDH	249	9.8	2,200	G&G	210
219HTM DHA	DHA	249	9.8	2,200	G&B	150

# EQUIPMENT AND APPLICATION



## 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

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
<b>STREET</b>	<b>Non O-Ring</b>	
	420NZ3	50 - 250 cc
	428NZ	50 - 125 cc
	520NZ	250 - 450 cc
	<b>X-Ring</b>	
	420V O-ring	50 - 125 cc
	428VX	50 - 350 cc
	520VX2	125 - 750 cc
	525VX	400 - 900 cc
	530(50)VX	750 - 1000 cc
<b>SPORT</b>	520ZVM-X	250 - 1200 cc
	525ZVM-X	450 - 1300 cc
	50(530)ZVM-X	600 - 1400 cc
<b>RALLY &amp; ENDURO</b>	520ZVM-X	250 - 1200 cc
	520VT2 G&B	250 - 500 cc
		125 - 750 cc

SERIES	CHAIN	DISPLACEMENT
<b>TRIAL</b>	<b>Non O-Ring</b>	
	415ERZ G&G	50 - 250 cc
	520ERS2 G&G	125 - 250 cc
	<b>X-Ring</b>	
	428VX	50 - 350 cc
	520VX2	125 - 750 cc
<b>MOTOCROSS</b>	<b>Non O-Ring</b>	
	420NZ3 G&B	50 - 150 cc
	428NZ G&B	50 - 125 cc
	520DZ2 G&B	125 - 450 cc
	520ERT2 G&G	125 - 450 cc
	520MX G&B	250 - 500 cc
<b>RACING</b>	415ERZ G&G	50 - 250 cc
	520ERS2 G&G	125 - 250 cc
	<b>X-Ring</b>	
<b>SPRINT SUPERBIKE SUPERSPORT ENDURANCE</b>	520ERV3 G&G	250 - 1000 cc

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



# SPECIFICATIONS

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)	
	Non O-Ring	415ERZ	G&G	√	13,50	7,77	1,5	1,5	0,66	20,2	410	OPTION	RJ
		520ERS2	G&G		16,75	10,16	1,8	1,8	1,15	25,9	360	OPTION	RJ
		520ERT2	G&G	√	17,60	10,16	2,0	2,0	1,36	36,0	430	OPTION	RJ
		520MX	G&B	√	18,60	10,16	2,2	2,2	1,56	39,7	440	√	N/A
	X RING	520ERV3	G&G		18,60	10,22	2,0	2,0	1,50	38,5	3100	√	N/A
		520ZVM-X	B&B or G&G		21,00	10,22	2,2	2,2	1,63	38,9	3500	√	N/A
		525ZVM-X	B&B or G&G		23,20	10,32	2,4	2,6	2,11	46,3	4000	√	N/A
	X RING	530(50)ZVM-X	B&B or G&G		24,90	10,32	2,4	2,6	2,20	46,3	4000	√	N/A
		428VX	B&B or G&B		20,65	8,6	2,0	2,0	1,21	33,0	2700	OPTION	FJ
		520VX2	B&B or G&B		18,70	10,22	2,0	2,0	1,52	36,5	3500	√	OPTION FJ
		525VX	B&B or G&B		21,80	10,32	2,2	2,2	1,84	41,0	3600	√	OPTION FJ
		530(50)VX	B&B or G&B		23,30	10,32	2,2	2,2	1,94	41,0	3800	√	N/A
	O RING	532ZLV	B&B		24,80	11,10	2,4	2,4	2,20	43,4	3300	√	N/A
		420V	B&B		16,90	7,77	1,5	1,5	0,73	15,8	700	N/A	RJ
	X RING	630V	B&B		25,30	11,96	2,4	2,4	2,96	48,1	2050	OPTION	FJ
		520VT2	G&B		18,70	10,16	2,0	2,0	1,49	37,5	3060	OPTION	FJ
	NON O-Ring	520ATV	G&B		21,00	10,22	2,2	2,2	1,66	33,9	3250	OPTION	FJ
		520DZ2	G&B	√	17,65	10,16	2,0	2,0	1,40	36	410	OPTION	RJ
		420NZ3	B&B or G&B	√	16,75	7,77	1,8	1,8	0,82	21,9	410	N/A	RJ
		428NZ	B&B or 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



**RJ**  
Loose fit type  
Clip



**FJ**  
Semi-press fit type  
Clip



**ZJ**  
Semi-press fit type  
Rivet



**LE**  
Endless/ Chain closed  
by manufacturer

# DID EUROPE srl

VIA DEL FONDITORE, 16

40138 BOLOGNA - ITALY

TEL +39.051.531543

FAX +39.051.6014912

www.dideu.it



## Maintenance

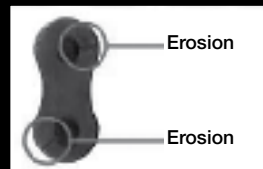
Every 500 km



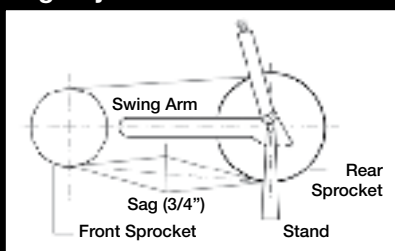
Place of Lubrication



## Battery Liquid / Anti-Frozen Materials



## Sag Adjustment



## Sprocket Alignment

