Think threads with **YAMAWA YMW-U.S.A. TODAY**

NEWSLETTER FROM YAMAWA MFG. CO., LTD. & YMW TAPS USA

VOLUME 2 July 2015

Greetings from Glynn by Glynn Simmons Yamawa North America 310-994-6591

Consistent with the philosophy of Yamawa International Company, LTD. and Yamawa Manufacturing. Corp. to continue serving the high production metal working industries. a new series of taps has been developed for medium hardness carbon steel materials.

The MHSL is specifically designed for the carbon steels used in the motor vehicle industries.



The MHSL tap is ideal for the automotive, off road, auto racing, motorcycle, farming and construction equipment manufacturers to thread through holes in tough steels on difficult applications.



YAMAWA WANTS YOU TO TRY THESE AMAZING **NEW HIGH** PERFORMANCE MHSL TAPS FOR MEDIUM HARDNESS CARBON STEELS AND SEE THE DIFFERENCE YOURSELF.

CALL YMW TAPS U.S.A. 855-969-8721 BETWEEN JULY - AUG 2015 AND WE'LL SEND YOU A FREE MHSL TAP TO **COMPLETE YOUR** TESTING.

YOU TOO WILL BE AMAZED AT THE PERFORMANCE.

PLACE A TEST ORDER NOW AND WE WILL **GUARANTEE YOUR** TAPPING SATISFACTION WITH THE FIRST TAP.

AFTER YOUR SUCCESSFUL TESTING YOU CAN CONTINUE TO RECEIVE THE

PROMOTIONAL PRICING ON THE MHSL TAPS FROM JULY THROUGH AUG 2015.

In This Issue MHSL For Tough Steels.....1 News In tapping Steels.....1 Thinking Threads.....2 YMW TAPS U.S.A. 855-YMW-USA1 855-969-8721 www.ymwtapsusa.com

IMPROVED THREAD SURFACE FINISH

chip and pushes them forward out of the hole smoothly.







SL + TIN coating tapping internal screw thread







THE OUTSTANDING SMOOTH **CUTTING PEFORMANCE OF** THE MHSL TAP PRODUCES A FAR BETTER THREAD SURFACE FINISH AND A SUPERIOR INTERNAL THREAD.

The MHSL has become one of the leading taps used in the automotive industry worldwide.

The MHSL is designed with a cobalt HSS base with a thin film coating developed specifically for medium hardness carbon steels.

The unique helical flute and special coating of the MHSL taps are ideal for through hole tapping in medium hardness carbon steels.

These new MHSL taps cut medium hardness carbon steel with great chip control, excellent tool life and produce a superior thread finish.

ALL THAT TECHNOLOGY AT A GREAT PRICE.

		Think threads with YAMAWAYMW-U.S.A. TODAY								
NEWS	LETTER FROM YAN	MAWA IN	TERNATIO	ONAL, LTC). & YMW T	APS US	Α	VOLUME 2 NO. 3	4/15	
Medium Hardness = MH										
THE MHSL IS DESIGNED TO THREAD MEDIUM HARDNESS CARBON STEELS UP TO 30Rc IN 1030 TO 1055, 1525 TO 1541 AND 86L20 TO 86L40.										
										■ Features
 Long tool lifeThe combination of a HSS-Co base material (featuring wear resistance materials) and special coating achieve high durability and tool life. 										
Improved chip ejectionYamawa has created a unique 2-step helical flute design in the MHSL taps that ejects the chips and give great chip control in through hole tapping.										
 Good surface roughnessThe superior cutting performance results in a excellent surface finish. 										
HSS-Co Coating										
High carbon steels 30~60 (SFII) Thermal refined steels 30~60 (SFII) Recommended Tapping Speeds depending on Materials										
Child Copy of the second state (Unit: inch) Table of dimensions and sizes DIN lengths with ANSI shank dimensions										
	size	class	L	l	ln	Ds	of flutes	code		
	M6 X1	D5	3.150	0.591	1.181	0.255	3	LS6.0MEFCL5		
	M8 X1.25 M10X1.25	D5	3.543	0.748	1.382	0.318	3	LS8.0NEFCL5		
	WITUA1.25	D6	3.937	0.906	1.929	0.323	3	LS010NFFCL5		

TECHNICAL TAP TIPS

D6

D7

D7

M12X1.25

M14X1.5

M16X1.5

THE THREAD PITCH OF A TAP IS NORMALLY MORE ACCURATE THAN THE FEED MECHANISM OF A MACHINE.

WHEN RIGID TAPPING, OVER FEEDING OR UNDER FEEDING A TAP WILL CAUSE AN INCORRECT THREAD FORM LIKE THE ONE TO THE RIGHT. THE THREADS WILL LOOK STEPPED AND BOTH THE GO AND THE NO GO GAGE WILL GO INTO THE THREAD AND THE PITCH DIAMETER WILL BE INCORRECT.

4.331

4.331

4.331

1.024

1.024

1.024

2.126

2.126

2.126

0.367

0.429

0.480

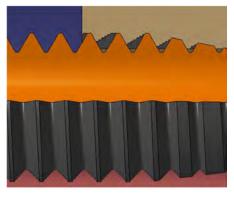
4

4

4

WHEN USING RIGID TAPPING HOLDERS, THE MACHINE LINEAR ENCODER MUST BE AS ACCURATE AS THE THREAD PITCH OF THE TAP. A POOR QUALITY THREAD IS PRODUCED IF THE LINEAR ENCODER CAUSES AN INCONSISTENT FEED. YAMAWA RECOMMENDS USING A RIGID TAPPING HOLDER ON A CNC MACHINING CENTER WITH THE <u>MHSL SERIES TAPS</u>.

IF THE ENCODER ACCURACY IS IN QUESTIONABLE OR THE MACHINE FEED IS INCONSISTENT, USE A YAMAWA ZELX SS TAP AND A TAP HOLDER WITH A RADIAL FLOAT AND TENSION/ COMPRESSION FEATURE TO COMPENSATE FOR THE INACCURACARY OF THE FEED MECHANISM OF THE MACHINE.



LS012NFFCL7

LS0140HFCL7

LS0160HFCL7

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