

[imatecno.com](http://imatecno.com)

LASER  
PLASMA  
WATERJET  
DRILLING

Solution for  
**CUTTING  
TECHNOLOGY**



# Our PRODUCTS

**ITALY**

*Taylor-made*

**IMA TECNO** offers a complete range of products for application on cutting machines with **PLASMA, LASER** and **WATERJET TECHNOLOGIES**.

Solutions developed and based on

- **HIGH QUALITY**
- **COMPLETE SOLUTION**
- **BEST SOLUTION AGAINST COLLISIONS**
- **EASY FIXING SYSTEM ON THE MACHINE**
- **PLATE INTERFACE HEAD / MACHINE**
- **EQUATIONS A - B - X - Y - Z AXIS (Bevel Head  $\pm 60^\circ$ )**

In the spirit of flexibility that distinguishes us and strong of our experience, any and more customized solutions can be examined /offered.



Bevel Head



Laser Head



Waterjet Head



Drilling Unit

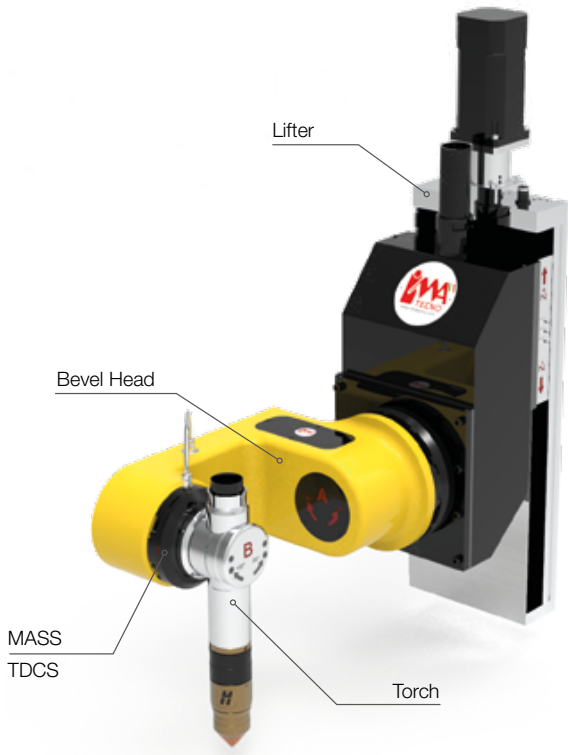


L Mass System

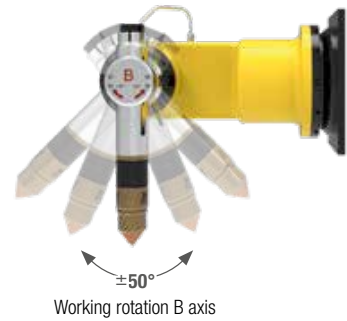
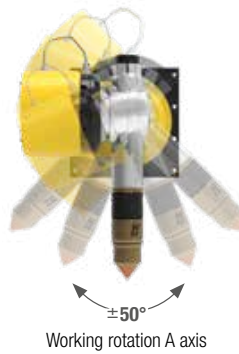


Accessories

# BEVEL HEAD ± 50° bevel angle



Description - Data		A Axis (Head)	B Axis (Torch)
Ima Tecno	code		
Working position	type	Horizontal	
Bevel angle	max	± 90°	± 90°
	work	± 50°	± 50°
Reduction system	data	backlash "0" < 1 arc/min	
Motor encoder	type	Incremental / Absolute multiturm	



## BEVEL HEAD configuration

BEVEL HEAD	AXIS Z LIFTER	CHECKS AND SAFETY
 <p>BEVEL HEAD ± 50° bevel angle</p>	 <p>LIFTER STROKE: 250-500 mm</p>	 <p>Z AXIS ± 1 TDCS+MASS Code 30M014960 or MASS Code 30M013990</p>

## BEVEL HEAD motors

The Bevel Head can be manufactured using motors and drives supplied by the Customer which will be assembled by IMA TECNO before delivery.

- 
- Hypertherm**
- BECKHOFF**
- 
-  ECKELMANN
- 
- FANUC**
- HIWIN**
-  **BOSCH**
-  **KOLLMORGEN**
-  **mitsubishi ELECTRIC**
- Panasonic**
- SIEMENS**
- YASKAWA**

Bevel Head

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Bevel Head + Lifter stroke:

# BEVEL HEAD ± 60° bevel angle



Description - Data		A Axis (Head)	B Axis (Torch)
Ima Tecno	code		
Working position	type	Horizontal	
Bevel angle	max	± 90°	± 90°
	work	± 60°	± 60°
Reduction system	data	backlash "0" < 1 arc/min	
Motor encoder	type	Incremental / Absolute multiturn	



## BEVEL HEAD configuration

BEVEL HEAD

AXIS Z LIFTER

CHECKS AND SAFETY



BEVEL HEAD  
± 60° bevel angle



LIFTER  
STROKE: 250-500 mm



TDCS+MASS  
Code 30M014900

or



MASS  
Code 30M013990

## BEVEL HEAD motors

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**Hypertherm**  **BECKHOFF**



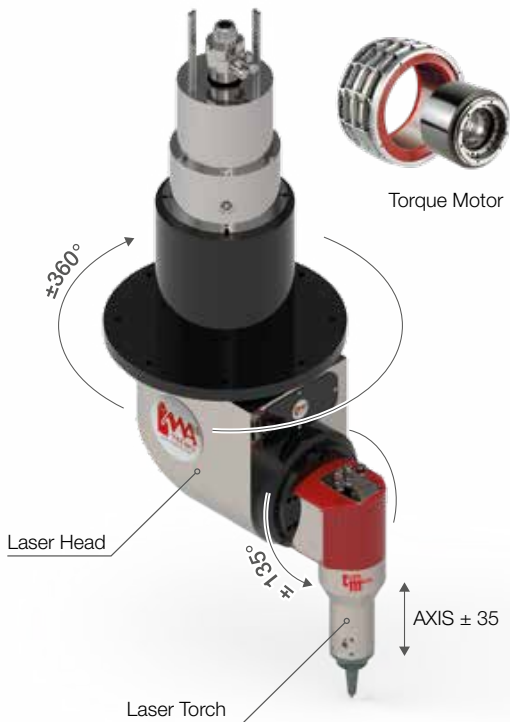
**ECKELMANN**  **SIEMENS**

**BOSCH**  **KOLLMORGEN**



**Panasonic**  **YASKAWA**

Bevel Head
Bevel Head + Lifter stroke:



## LASER HEAD Swivel Torque

Description - Data		A Axis (Head)	B Axis (Torch)
Ima Tecno	code	22000A010	
Working position	type	Vertical	
Bevel angle	max	<b>continuous</b>	<b>± 135°</b>
	work	<b>continuous</b>	<b>± 135°</b>
Axis drive	type	<b>Direct drive with torque motor</b>	
Motor encoder	type	Incremental / Absolute multiturn	



## LASER HEAD Vertical Application

Description - Data		A Axis (Head)	B Axis (Torch)
Ima Tecno	code		
Working position	type	Vertical	
Bevel angle	max	<b>± 190°</b>	<b>± 120°</b>
	work	<b>± 180°</b>	<b>± 110°</b>
Gear reducer	type	<b>High quality IMA TECNO solution</b>	
Motor encoder	type	Absolute multiturn	
Motor	type	Following customer request	

### LASER HEAD motors

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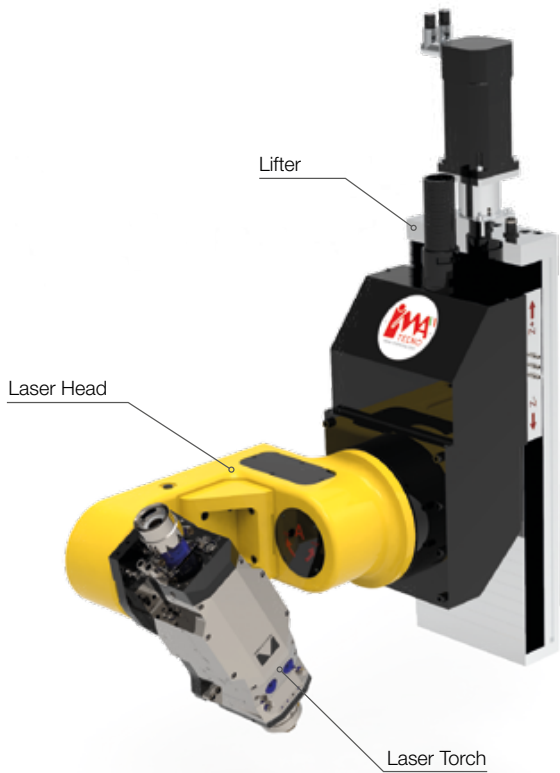


Laser Head

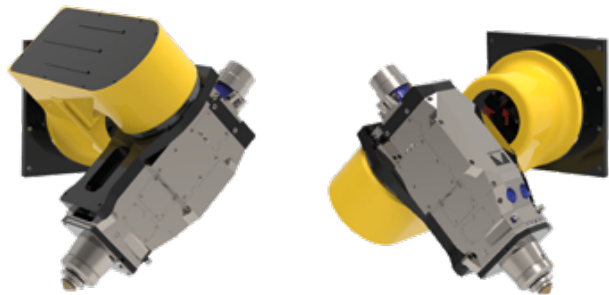


# LASER HEAD

## Horizontal Application



Description - Data		A Axis (Head)	B Axis (Torch)
Ima Tecno	code		
Working position	type	Horizontal	
Bevel angle	max	$\pm 90^\circ$	$\pm 90^\circ$
	work	$\pm 50^\circ$	$\pm 50^\circ$
Gear reducer	type	<b>High quality IMA TECNO solution</b>	
Motor encoder	type	Incremental / Absolute multiturn	
Motor	type	Following customer request	



## LASER HEAD configuration

LASER HEAD

AXIS Z LIFTER



LASER HEAD  
 $\pm 50^\circ$  bevel angle



LASER HEAD  
 $\pm 50^\circ$  bevel angle



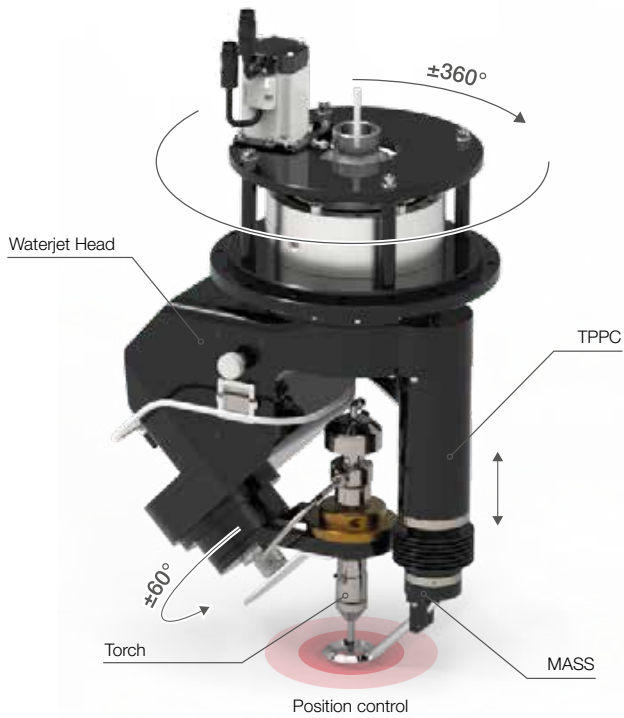
LIFTER  
STROKE: 250-500 mm

## LASER HEAD motors

The Bevel Head can be manufactured using motors and drives supplied by the Customer which will be assembled by IMA TECNO before delivery.

- 
- Hypertherm**
- BECKHOFF**
- 
- 
- esa**
- FANUC**
- HIWIN**
- 
- KOLLMORGEN**
- 
- Panasonic**
- SIEMENS**
- YASKAWA**

Laser Head <hr style="border: 0; border-top: 1px solid red;"/> Laser Head + Lifter stroke:
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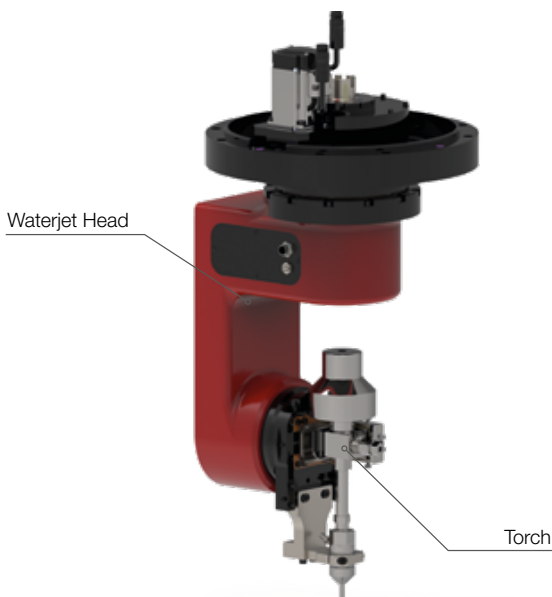
## WATERJET HEAD ± 60° bevel angle

NEW **IMA TECNO SOLUTION** waterjet head designed and built for accurate 5-axis cutting giving you the ultimate in accuracy, speed, and flexibility.

Description - Data		C Axis	A Axis
Ima Tecno	code	21000A010	
Working position	type	Vertical	
Bevel angle	work	<b>360°</b>	<b>± 60°</b>
Continuous rotation	type	Yes by customer	NO
Gear reducer	type	<b>High quality IMA TECNO solution</b>	
Motor encoder	type	Incremental / Absolute multiturn	
Motor	type	Following customer request	
Weight	Kg	56	

<b>MASS/WJ + TPPC</b> code 30M015210	Anti-collision system (MASS/WJ) to guarantee the integrity of the nozzle of cutting head, in the eventual collision.
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## WATERJET HEAD Orthogonal

Description - Data		A Axis (Head)	B Axis (Torch)
Ima Tecno	code		
Working position	type	Horizontal	
Bevel angle	max	<b>± 90°</b>	<b>± 90°</b>
	work	<b>± 50°</b>	<b>± 50°</b>
Reduction system	data	<b>backlash "0" &lt; 1 arc/min</b>	
Motor encoder	type	Incremental / Absolute multiturn	

## WATERJET HEAD motors

The Bevel Head can be manufactured using motors and drives supplied by the Customer which will be assembled by IMA TECNO before delivery.

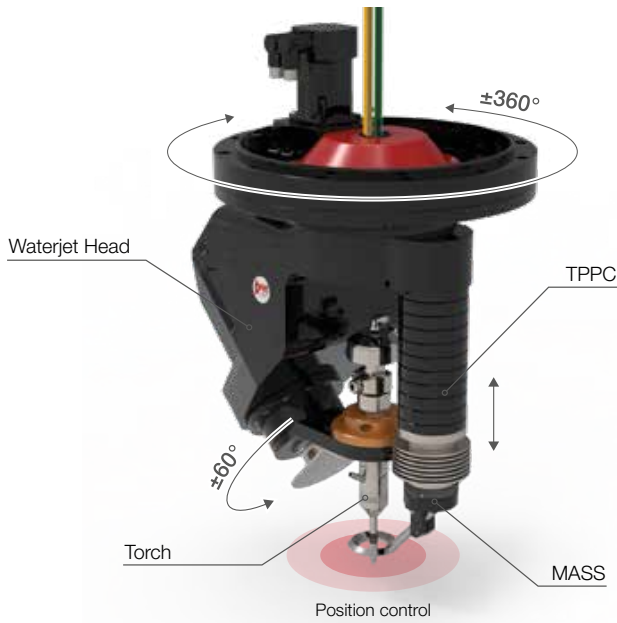


Waterjet Head



# WATERJET HEAD

## Lite $\pm 60^\circ$ bevel angle



Description - Data		C Axis	A Axis
Ima Tecno	code	21000A020	
Working position	type	Vertical	
Bevel angle	work	<b>360°</b>	<b><math>\pm 60^\circ</math></b>
Continuous rotation	type	NO	NO
Gear reducer	type	<b>High quality IMA TECNO solution</b>	
Motor encoder	type	Incremental / Absolute multiturn	
Motor	type	Following customer request	
Weight	Kg	32	

**MASS/WJ + TPPC**  
code 30M015210

Anti-collision system (MASS/WJ) to guarantees the integrity of the nozzle of cutting head, in the eventual collision.

## WATERJET HEAD configuration

WATERJET HEAD

CHECKS AND SAFETY



WATERJET HEAD  
 $\pm 60^\circ$  bevel angle



TPPC

MASS/WJ

## WATERJET HEAD motors

The Bevel Head can be manufactured using motors and drives supplied by the Customer which will be assembled by IMA TECNO before delivery.



**Hypertherm**  **BECKHOFF**

**NELTA**

**ECKELMANN**

**esa**

**FANUC**

**HIWIN**



**BOSCH**

**KOLLMORGEN**

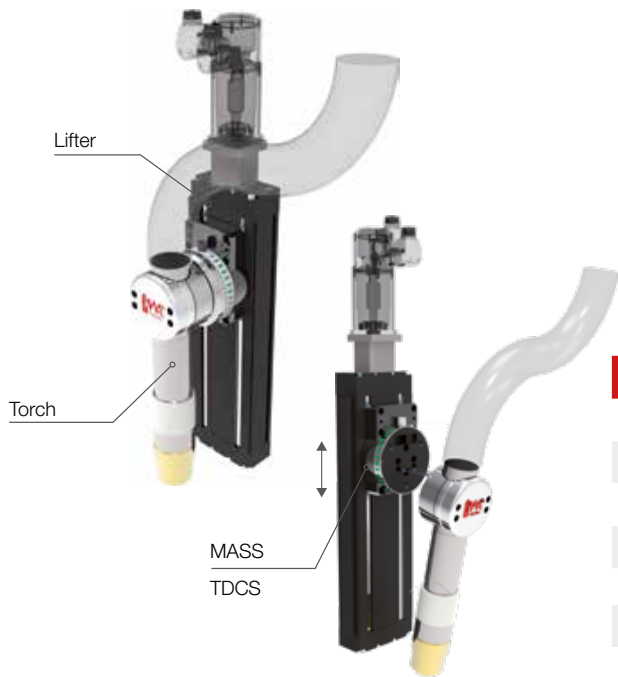
**MITSUBISHI ELECTRIC**

**Panasonic**

**SIEMENS**

**YASKAWA**

Waterjet Head



## L MASS TCDS

(Lifter + Magnetic Anti-Shock System + Torch Contact Detection System)

TORCH SUPPORT complete with lifter and anti-collision system. SIMPLE and ECONOMICAL solution suitable both for applications on new machines and for technical upgrading of existing machines.

Description - Data		30M013850	30M014900	30M014960
Work Position	type	Vertical		
Dimensions without motor	mm	110 x 430	110 x 530	110 x 660
Vertical stroke	mm	200	300	400
Ball Screw	mm	Ø 16 x 5 - ISO 7		
Sensors	type	Inductive switches PNP		
Motor	type	chosen by the customer		

## MASS + TCDS

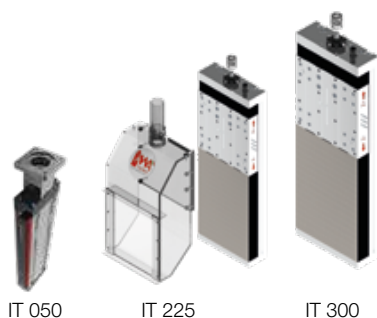
(Magnetic Anti-Shock System + Torch Contact Detection System)

The anti-collision system developed by IMA TECNO guarantees the integrity of the torch in case of impact. The system is easily adaptable to different types of torch and accessories.



Description - Data		30M013850	30M014900	30M014960	
MASS + TDCS	Sensor	Inductive PNP			
	Application for	Lifter	± 60°	± 50°	
	Magnetic force	Kg	120(185)	120	120
	Diameter MASS	mm	Ø 100 (105)	Ø 100	Ø 100
Description - Data		30M01990	30M015140		
MASS	Diameter	mm	100	105	
	Magnetic force	Kg	120	185	
	Inductive sensor	Yes			
Torch holder	Ø	35 - 44,5 - 45 - 51 - 57			

## AXIS LIFTER



Description - Data		IT 050 SERIES	IT 225 SERIES	IT 300 SERIES
Tilting stroke	mm	from 250 to 400	from 250 to 500	
Length	mm	110	225	300

# DRILLING UNIT

Ima Tecno designs and manufactures different types of drilling units easily adaptable to different construction needs.

Consisting of a spindle shaft, tool lock and release cylinder and power transmission, the drilling units can be configured with different types of tool attachment and different types of servomotors.



10400A340/350



10400A210



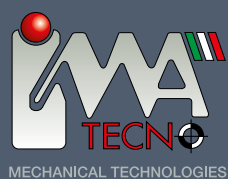
10400A230

Description - Data		10400A340	10400A350	10500A260/270	10400A210	10400A230	
Max dimension without motor	mm	195x445x660		275x570x 870	Øc 140/205x435	Øc 222/278x545	
Max Speed	rpm	3.000	2.500	3.000	8.000		
Tool Interface	type	ISO 40 / HSK C63		ISO 50 / HSK C80	ISO 40		
Torque	Nm	max 130		max 375	max 120		
DRILLING UNIT	Tool Holder Release	type	Integrated pneumatic piston	Integrated hydraulic piston	External pneumatic piston	Integrated pneumatic piston	
	Tool Change Monitoring	type	Sensors PNP		-	Analog Sensor	
	Bearings lubrication	type	Grease for life				
	Motor	type	All - Customer supply				
Transmission	type	Radial (pulley and belt)			External Coaxial		
Front Protection	-	Air 0,2 Mpa					
Refrigerant passage in axis	type	Predisposition for rotary union 25 l/min (opzional)					
External Refrigerant	-	1 nozzle			4 nozzles (opzional)		
<b>Tool type for</b>		<b>10400A340</b>	<b>10400A350</b>	<b>10500A260/270</b>	<b>10400A210</b>	<b>10400A230</b>	
PROCESSING: DRILLING	HSS	Ø mm	min. 5 - max 25	min. 5 - max 35	min. 5 - max 50	min. 5 - max 25	min. 5 - max 35
	Hard Metal	Ø mm	min. 6 - max 15	min. 5 - max 25	min. 5 - max 40	min. 6 - max 15	min. 6 - max 15
	Inserts Corondrill 880	Ø mm	min. 25 - max 30	min. 25 - max 40	min. 25 - max 60	min. 25 - max 30	min. 25 - max 30



application examples

2022



IMA TECNO S.R.L.

HEADQUARTERS

VIA DELLE INDUSTRIE N.°1




WAREHOUSE

VIA DELL' ARTIGIANATO N.°4

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## EXPLORE OUR PRODUCT LINES

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-  **Ball Screw Support** / Standard and Heavy-duty
-  **Repair and Service** / All Brands



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