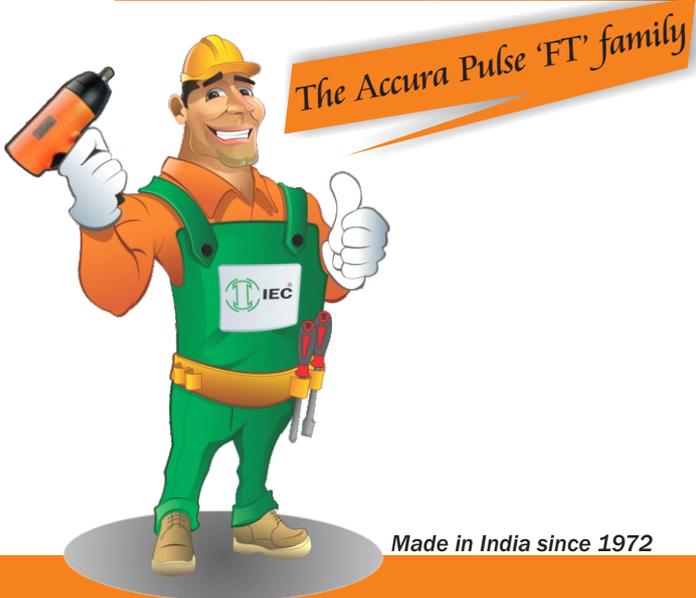




$$TC + TV = FT$$



Made in India since 1972

*Accuracy at its best!*



**IEC AIR TOOLS PVT. LTD.**



# Complete Fastening Process Control

IEC - first in India to launch Accura FT Series  
Transducerised Pulse Tools and Accura CMS FT Controller



$$TC + TV = FT$$

**Total Control + Total Value = Fastening Torque**



### Salient Features of FT (Fastening Torque) Transducerised Accura Pulse Tool IAP-FT:

- Integrated rotary strain gauge type transducer
- The accura pulse FT tools are unique & are registered design.
- **Unique Feature** - LED in Front of Tool Indicates Cycle Status, no need to check at controller end.
- Complete fastening process control
- Fast and Accurate tightening
- Increased MTBF
- Wear and Tear of the tool is minimised as excessive running of the tool is controlled - **Saves compressed air energy**
- **Low Noise and Lesser Vibrations** - Zero torque reaction to the operator as shut off eliminates the need of reaction arm and related expensive accessories
- Modular design ensures Easy Maintenance
- All major parts of the tool are from the proven Accura Pulse Series tools which translates to  $TC + TV = FT$

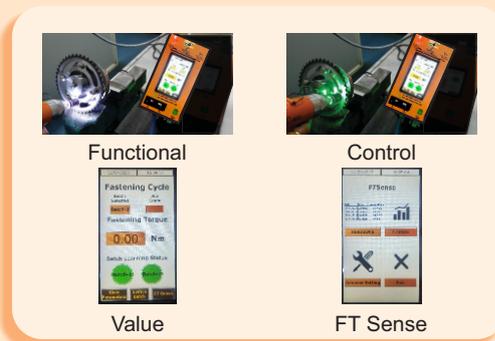
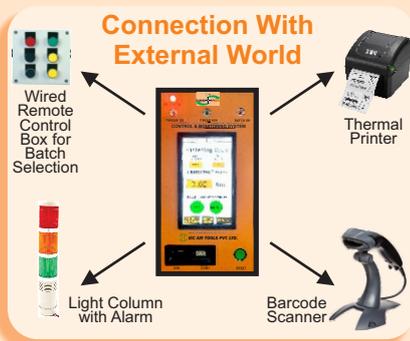
### Salient features of FT (Fastening Torque) Series Controller – CMS (FT)

- Large 7" capacitive, multicolor touch screen interface displaying fastening torque and cycle status OK/NOK
- Storage capacity of 10,000 fastening cycles in internal memory and 2/8/16GB USB compatible for taking rundowns backup more than 50,000 readings can be stored
- Closed-loop torque control & torque validation (Date & Time stamped)
- 2 Outputs (Batch OK & Cycle NOK) available that can be integrated with your line for further process control. Additional output available (optional)
- Free run NOK ■ Cross thread detection
- As process is controlled and monitored; tools operate with better accuracy
- Simultaneous rundown recording via Ethernet
- Provision to interface Printer/Scanner with FT Controller on customer demand.
- Error proofing of process with Cycle NOK, Batch OK, Early and mid-trigger release, Re-hit, Transducer cable fault.
- Preventive Maintenance Alarm
- Precise Torque Control & Multiple parameter Set Capability.

MODEL	CAPACITY BOLT SIZE MM	FREE SPEED RPM	TORQUE RANGE (N-m)		SQUARE DRIVE SHANK MM	WEIGHT Kg.	OVERALL LENGTH MM	AIR INLET THREAD BSP	AIR HOSE SIZE MM	AIR PRESSURE Kg./Cm <sup>2</sup>
			Min.	Max.						
IAP-6FT#	M8	7000	15	35	9.50	1.65	197.5	1/4"	9.5	6.0
IAP-6FTD	M8	7000	15	25	6.35*	1.65	200.5	1/4"	9.5	6.0
IAP-8FT#	M8 - M10	6000	35	70	9.50	1.75	219.5	1/4"	9.5	6.0

# Registered Design

\* Anvil Drive Hex



# Never before fastening quality!

# Never before operator comfort!!

**IEC** the leaders in Air Tools, continues to be forerunner in regularly introducing latest technology & solutions. The solutions and models are accepted in the market for their quality and competitiveness. **IEC** tools offer rewarding TCO and a win-win solution to it's customers.

## Accura Oil Pulse Shut-off Wrenches '+ Series

Ideal fastening tool for modern assembly line. **IEC** introduces latest generation of Accura Oil Pulse Shut Off Wrenches (ST) offering three key features:

- **High Accuracy**
- **High Power to Weight Ratio**
- **Enhanced Ergonomics**



**Salient Features:** ■ Powerful Double Chamber Air Motor ■ Fast and Accurate tightening ■ Oil Pressure sensing Shut Off Mechanism  
 ■ Ease of torque Adjustment ■ Double Blade Pulsing Mechanism ■ Durable Performance ■ Low Noise and Lesser Vibrations  
 ■ Ease of Operation ■ Rubber Grip



MODEL	CAPACITY BOLT SIZE MM	FREE SPEED RPM	TORQUE RANGE (N-m)		SQUARE DRIVE SHANK MM	WEIGHT Kg.	OVERALL LENGTH MM	AIR INLET THREAD BSP	AIR HOSE SIZE MM	AIR PRESSURE Kg./Cm <sup>2</sup>
			Min.	Max.						
IAP-4ST+	M5	7500	09	15	9.50	0.90	171.0	1/4"	9.5	6.0
IAP-4STD+**	M5	7500	08	13	6.35	0.91	179.5	1/4"	9.5	6.0
IAP-6ST+	M8	7000	20	35	9.50	1.25	184.0	1/4"	9.5	6.0
IAP-6STD+**	M8	7000	18	32	6.35	1.25	189.0	1/4"	9.5	6.0
IAP-6SST+	M8	6500	20	35	9.50	1.20	232.0	1/4"	9.5	6.0
IAP-6SSTD+**	M8	6500	18	32	6.35	1.20	237.0	1/4"	9.5	6.0
IAP-8ST+	M8-M10	6000	40	60	9.50	1.40	206.5	1/4"	9.5	6.0
IAP-8STD+**	M8-M10	6000	40	57	6.35	1.40	209.0	1/4"	9.5	6.0
IAP-8SST+	M8-M10	6000	40	60	9.50	1.40	257.0	1/4"	9.5	6.0
IAP-8SSTD+**	M8-M10	6000	40	57	6.35	1.40	259.5	1/4"	9.5	6.0
IAP-10ST+	M10-M12	6000	85	110	12.70	2.30	216.0	1/4"	9.5	6.0

\*\* Suffix the above tools with 'D' for Driver Type Anvil. Example: IAP-6STD+D

Suffix the above tools with 'P' for using the tool with CMS Controller. Example: IAP-6ST+P

## Accura Pulse Wrenches



Accura Pulse Wrenches are the ideal fastening tools for modern assembly line. This combination tool of an air motor and unique hydraulic pulse unit offers distinct advantages over conventional Impact Wrenches and Nutrunners in terms of better quality of fastening, longer life and operator comfort. The torque of the tool can be easily varied within the range of the tool and remains practically constant.



MODEL	CAPACITY BOLT SIZE MM	FREE SPEED RPM	TORQUE RANGE (N-m)		SQUARE DRIVE SHANK MM	WEIGHT Kg.	OVERALL LENGTH MM	AIR INLET THREAD BSP	AIR HOSE SIZE MM	AIR PRESSURE Kg./Cm <sup>2</sup>
			Min.	Max.						
IAP-3	M5	7500	9	~ 15	9.50	0.81	139.0	1/4"	9.5	6.0
IAP-3D**	M5	7500	8	~ 13	6.35*	0.82	147.5	1/4"	9.5	6.0
IAP-3S	M5	8000	9	~ 15	9.50	0.85	210.0	1/4"	9.5	6.0
IAP-3SD	M5	8000	8	~ 13	6.35*	0.86	215.0	1/4"	9.5	6.0
IAP-6	M6 - M8	6500	15	~ 35	9.50	0.95	155.0	1/4"	9.5	6.0
IAP-8M	M8	7000	15	~ 35	9.50	1.19	146.0	1/4"	9.5	6.0
IAP-8MD**	M8	7000	15	~ 30	6.35*	1.19	151.0	1/4"	9.5	6.0
IAP-8MS	M8	8200	15	~ 35	9.50	1.20	221.0	1/4"	9.5	6.0
IAP-8MSD**	M8	8200	15	~ 30	6.35*	1.20	226.0	1/4"	9.5	6.0
IAP-8MSA☆	M8	7000	15	~ 35	9.50	1.64	256.0	1/4"	9.5	6.0
IAP-8	M8-M10	6000	35	~ 70	9.50	1.30	168.0	1/4"	9.5	6.0
IAP-8D**	M8-M10	6000	30	~ 60	6.35*	1.30	171.0	1/4"	9.5	6.0
IAP-8S	M8-M10	6500	35	~ 70	9.50	1.25	245.0	1/4"	9.5	6.0
IAP-8SD**	M8-M10	6500	30	~ 60	6.35*	1.25	250.0	1/4"	9.5	6.0
IAP-8SA☆	M8-M10	5500	30	~ 60	9.50	1.80	292.0	1/4"	9.5	6.0
IAP-10	M12	5800	70	~ 120	12.70	2.04	196.0	1/4"	9.5	6.0
IAP-16	M16	2800	120	~ 200	12.70	3.65	210.0	1/4"	9.5	6.0
IAP-18	M18	2400	200	~ 300	19.05	4.90	240.0	3/8"	12.7	6.0
IAP-20	M18-M20	4000	300	~ 400	19.05	6.50	270.0	3/8"	12.7	6.0
IAP-24	M24	3500	300	~ 550	25.40	12.50	443.0	3/4"	12.7	6.0

☆ Angular Tool \*\* Specifications to be read as Anvil Drive Hex. (Q.C.) # Torque and RPM ratings available @ 5 Kg/Cm<sup>2</sup> ■ Check joint conditions while selecting Pulse Tools. Rated working pressure will give optimum results. Select most suitable model. ■ Use correct size of Hoses and Couplers. Use Impact Sockets only. Clean Dry Air will further enhance the life of Pulse Tools.

### Accura Pulse 'N' Series Wrenches

MODEL	CAPACITY BOLT SIZE	FREE SPEED RPM 6Kg./Cm <sup>2</sup>	TORQUE RANGE (N-m) Min. Max.	SQUARE DRIVE SHANK MM	APROX. WEIGHT WITHOUT SOCKET Kg.	OVERALL LENGTH (APROX) MM	AIR INLET THREAD BSP	AIR HOSE SIZE MM
IAP-8MN	M8	9500	15 ~ 35	9.50	1.46	147	1/4"	9.5
IAP-8N	M8	9000	35 ~ 70	9.50	1.65	180	1/4"	9.5
IAP-10N	M10	8500	70 ~ 120	12.70	2.40	185	1/4"	9.5



**Salient Features:** ■ Increased Operator Comfort ■ Ideally suited where desired working pressure is not available.

### Cycle Monitoring System - CMS & CMS (NS)

**IEC AIR TOOLS PVT. LTD.** introduces : CMS - CYCLE MONITORING SYSTEM - The effective Poka-Yoke solution for modern assembly lines.



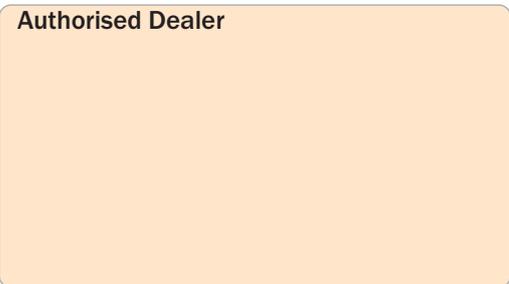
■ **CMS: CMS** - CYCLE MONITORING SYSTEM which can be interfaced with any of the **IEC** Accura Pulse Shut Off tools and the tool will have to be ordered separately mentioning suffix 'P' for example IAP-6ST+ P.

■ **CMS (NS) – IEC** innovates to arrive at shut off process for non shut off range of Pulse tools. **IEC** non shut off Pulse Tool & sensor hose from the tool is connected to Controller Monitoring System CMS (NS). Non Shut Off Pulse Tools are suitably modified to integrate the pickup signal from the trigger to the Controller Monitoring System. Tool will have to be ordered separately mentioning suffix (NS) for example IAP 8 (NS), IAP 10 (NS).

**Salient Features:** ■ Cycle and Batch count upto 99999 ■ Displays OK (Green Light) / NOK (Red Light) function ■ Displays the number of cycles completed ■ Easy Batch Selection ■ As process is monitored, Shut Off & Non Shut Off Pulse Tools operate with better accuracy ■ Free run NOK ■ Batch OK & Cycle NOK are sent to I/O connector for poka yoke ■ Easy Handling ■ Indigenously designed & manufactured in India.

■ We provide customized solutions for CMS & CMS (NS)

\* Specifications are subject to change without prior notice.



## IEC AIR TOOLS PVT.LTD.

**H.O. & Regd. Office :**  
IEC House, 1145, Shivajinagar, Off F. C. Road,  
Pune - 411 016. India.  
Tel. : 25651484, 25651241, 25651421  
Fax : 91-20-25651582  
Email : sales@iecairtools.com

**Factory :**  
117-118-123 'H' Block, MIDC Pimpri,  
Pune - 411 018.  
Tel.:+ 91-20-27474598, 27472348  
Email : support@iecairtools.com



<b>BRANCH OFFICES :</b>	<b>BANGALORE :</b> Telefax : 080-23133530	<b>CHENNAI</b> Tel. : 044-28255687, 044-28266584	<b>COIMBATORE :</b> Tel. : 0422-2526787	<b>DELHI :</b> Tel. : 011-43052510 Cell : 91 9310855410 : 91 7350823500	<b>JAMSHEDPUR :</b> Cell: 91 744744 9808	<b>GUJARAT :</b> Cell: 91 07350823800	<b>PUNE SALES OFFICE :</b> Tel. : 020-27462241 Telefax : 020-27462234
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