

## LRST Series Tank Mounted Direct Drive PM VSD 7.5 - 15 KW

In-Built VFD | Permanent Magnet Technology | Energy Saving

Simplicity  
Efficiency  
Affordability  
Reliability



***The Air of Trust***

## Anest Iwata Motherson

Anest Iwata Motherson (AIM) is a joint venture between Anest Iwata Corporation, Japan, and Motherson Group, India. Anest Iwata Corporation is one of the global leaders in Air Compressors and Vacuum Pumps with more than 9 decades of inspiring history of technological excellence.

Anest Iwata Motherson is committed to delighting its customers by ensuring the supply of the best quality products, supported with effective after-sales services at optimum value. The company has two state-of-the-art manufacturing facilities and a wide network of sales and service centers spread across India.

## Anest Iwata Inspiring History



**2000**  
**Anest Iwata Motherson**  
**Established**



**1991**  
**World's First Oil Free Scroll**  
**Air Compressor Launched**

**1928**  
**First Reciprocating**  
**Compressor**  
**Manufactured**

**1926**  
**Established**  
**In Japan**



**1977**  
**Screw Air compressor**  
**Launched**

**1984**  
**World's First Oil Free**  
**Reciprocating Compressor with**  
**"Seize Free Technology"**  
**Launched**

**1993**  
**World's First Oil Free Scroll**  
**Vacuum Pump Launched**

**2005**  
**Braking Compressor for**  
**Indian Railways Launched**

**2010**  
**Second Facility Inaugurated**  
**in Greater Noida (India)**

**2004**  
**World's First Oil-Free**  
**Booster Compressor**  
**Launched**



**2012**  
**Oil Free Claw**  
**Air Compressor**  
**Launched**

**2013**  
**Reciprocating Vacuum**  
**Pump Launched in India**

**2015**  
**MEGASY Series**  
**Medical Air & Vacuum Units Launched**

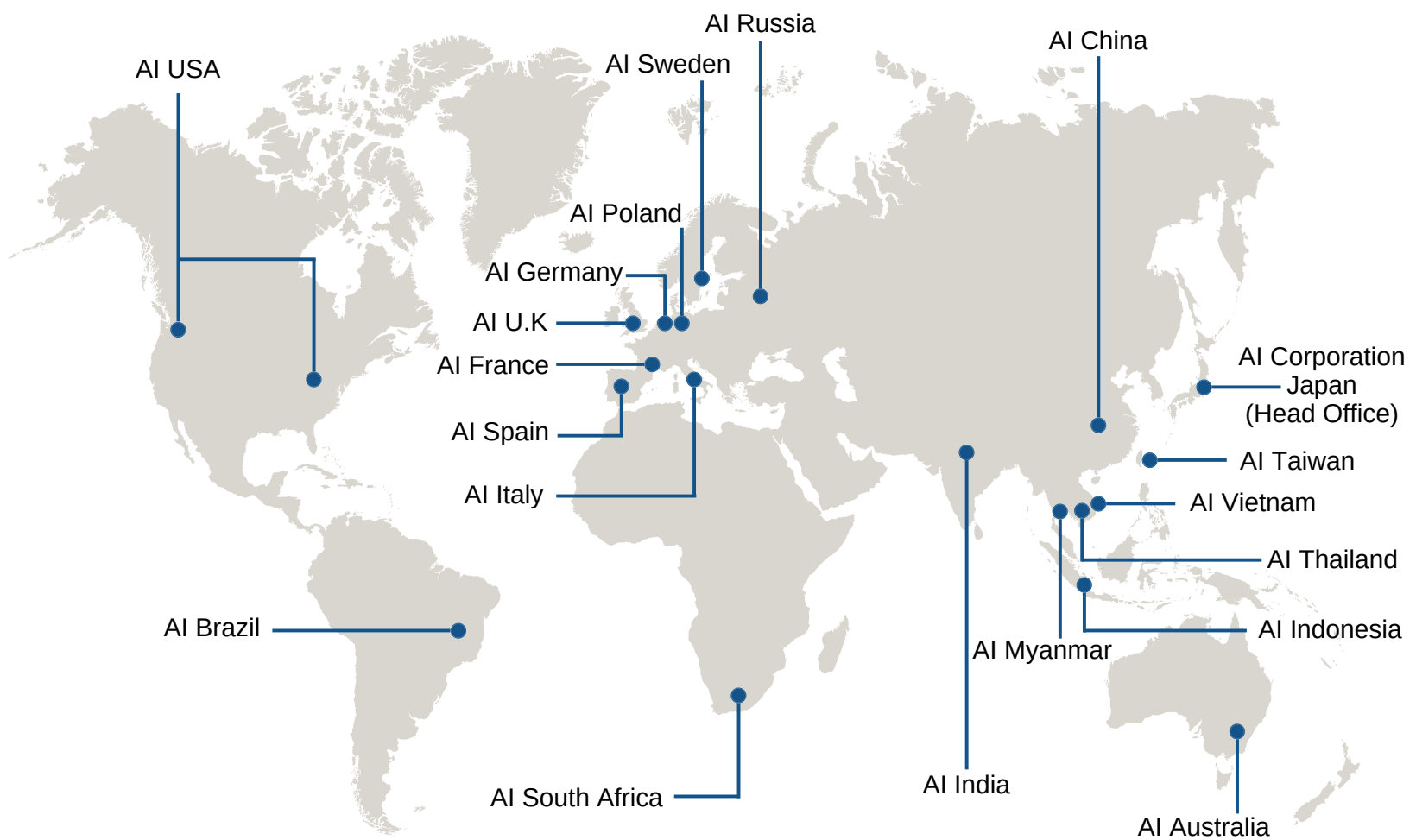
**2018**  
**Screw Air Compressor**  
**Sales Started in India**

**2017**  
**Electric Bus**  
**Compressor Launched**

**2019**  
**Rotary Vane**  
**Vacuum Pump**  
**Launched**



# Anest Iwata Global Network



# Affordable High Efficiency Compressed Air is here!

## Introducing AIM's latest range of Permanent Magnet Screw Compressors.

The LRST range is the perfect choice for small to medium air users who have a variable air demand or who would like an energy-efficient machine that can match their demand as air usage increases. The LRST range now makes variable-speed energy-saving technology affordable to even the smallest user, where previously it was only a viable option for large air users.



## Affordable energy savings

The unique design of the LRST machine bridges the gap between air users that have outgrown a piston compressor but cannot justify the cost of a new variable speed screw compressor. The oil-cooled IE4 'Super Premium Efficiency Permanent Magnet Motor' added with an inbuilt variable speed drive is the most cost-effective & energy-efficient air compressor available to you.

## Unique advantages of the LRST series:

- Low noise operation
- Maximum energy savings
- Oil cooled IP65 PM motor
- Bearing free motor design
- 1:1 direct drive
- Wide operating speed
- Automatic start-stop scheduling
- Low component count
- Solid seamless steel pipes
- Air receiver with segregated oil tank
- Easy to service and maintain
- Pure soft start control

# LRST Features and Benefits

## High efficiency airend

- Large oversized rotors increase efficiency by 60%
- Low rotational speed leads to reduced wear
- Triple lip shaft seals ensure leak-free operation

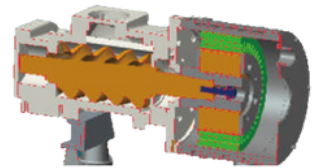


## Permanent magnet motor

- IE4 PM Motor offers the highest level of efficiency
- IP65 sealed motor prevents dust ingress
- Oil cooled motor ensures adequate cooling even in the harshest of environments
- Bearing free design means no bearing maintenance

## Direct coupled motor & airend

- 1:1 Direct Drive means no belt to maintain
- No gearbox or transmission losses
- Reduced noise over belt driven machines



## Easy access for maintenance

The Simple design means that all internal components are easily accessible

- Solid seamless steel pipework eliminates the risk of perished hoses
- Low component count increases reliability and service cost
- No drive belt maintenance

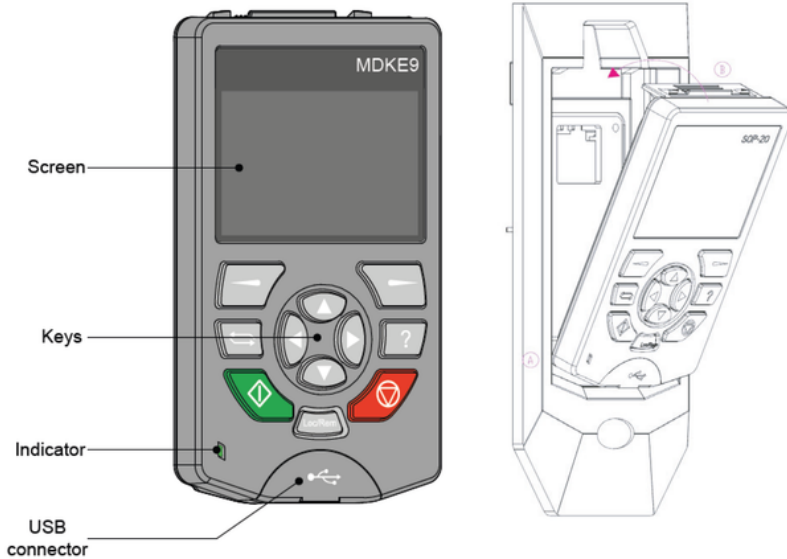
## Low noise operation

- The PM motor and VSD lead to low noise operation
- Ideal for installing in the workplace
- Direct Drive reduces transmission noise levels

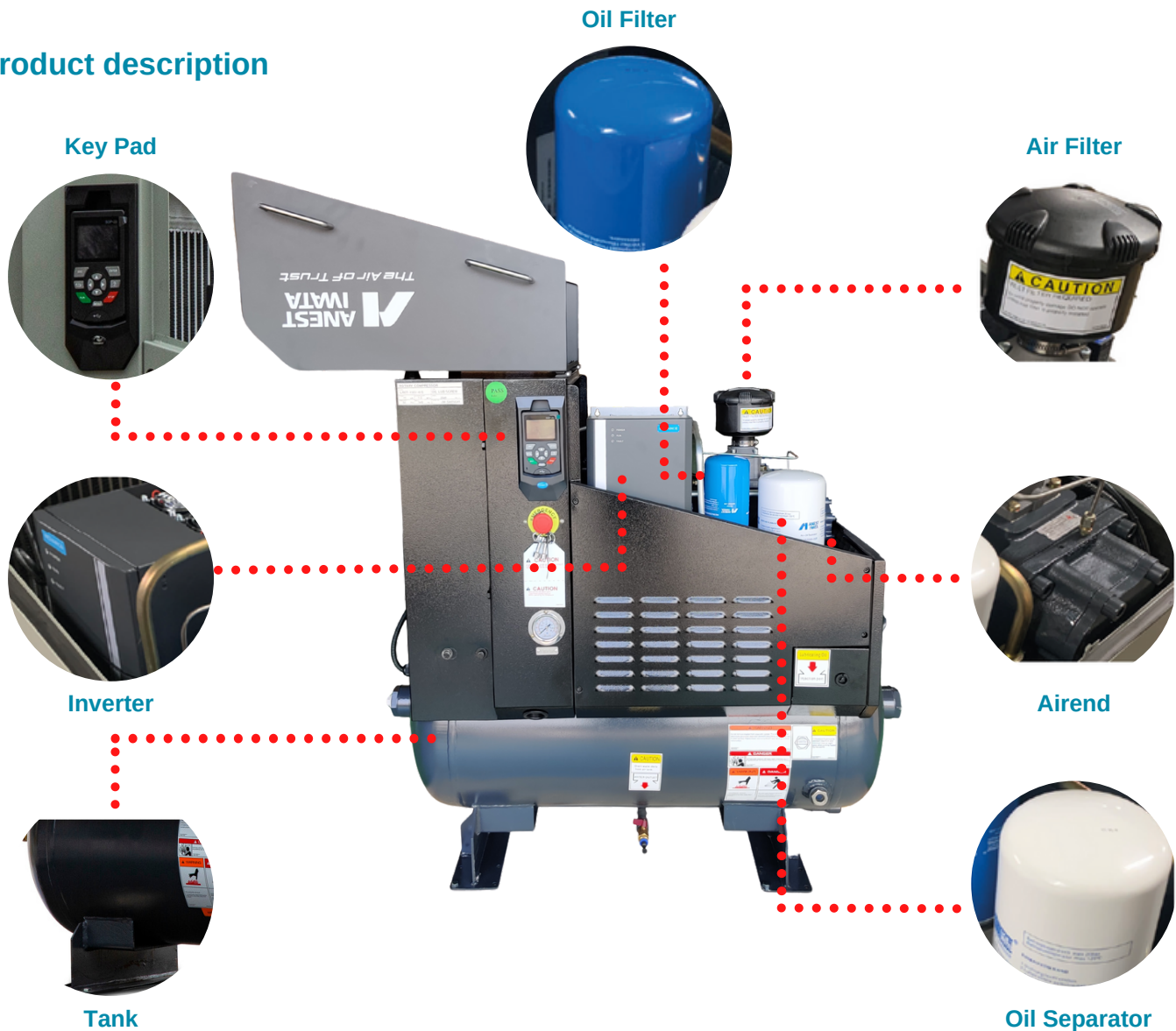


## User friendly controller

- Full-text user-friendly controller
- Plain text simplifies menu navigation
- Dedicated compressor software imbedded into the VSD simplifies commissioning, settings, and maintenance timers
- Ability to schedule start and stop times reduces energy through reduced running hours
- Unique removable ethernet cable connected controller. A controller can easily be relocated outside the machinery room.



## Product description



## Unique patented air receiver and oil tank



- A unique labyrinth structure enables a small section of the receiver to be used as an oil tank, reducing manufacturing costs
- This design also reduces the machine size, weight, and footprint

## Small, Compact and Flexible

The unique design of the LRST compressor makes it ideal for workplace installations, where space availability is a constraint.

- ▶ The flip-top design offers easy access to consumable parts from the front
- ▶ No need for rear machine access
- ▶ Can be located close to a back and sidewall
- ▶ No rear ventilation airflow required

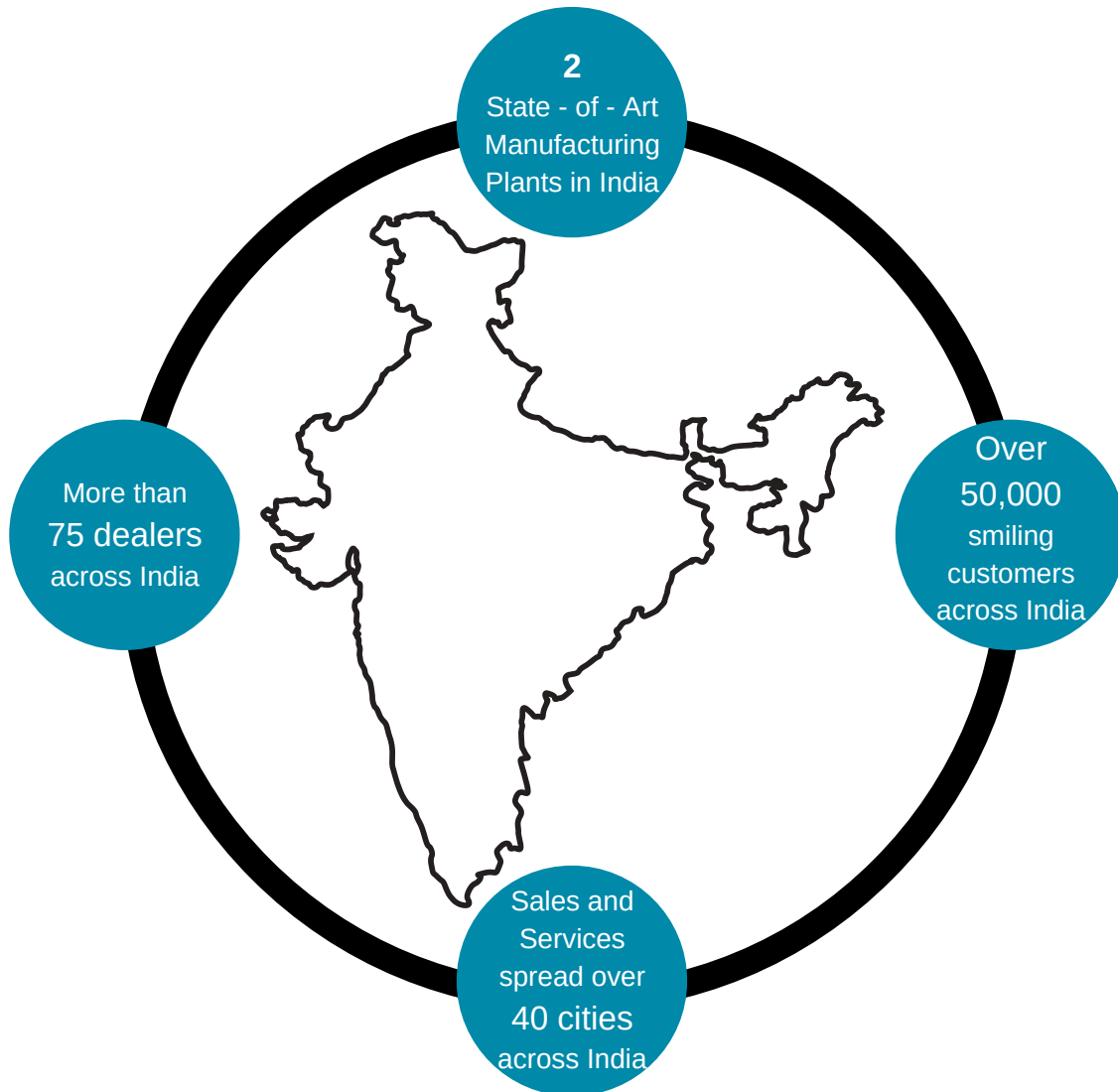
## Technical Specifications

Model	kw	hp	Capacity (m3/min)	Capacity (CFM)	Pressure (Bar)	Noise Level (dB)	Dimensions (mm)	Tank Size (ltr)	Outlet size (Inch)	Weight (kg)
LRST-7503-415	7.5	10	0.41 - 1.1	14 - 39	8	67 ± 3	1197 x 500 x 1125	130	RC 1/2	280
LRST-7501-415			0.35 - 0.95	12 - 34	10					
LRST-1103-415	11	15	0.69 - 1.70	24 - 60	8	68 ± 3	1197 x 605 x 1220	130	RC 1/2	320
LRST-1101-415			0.6 - 1.5	21 - 53	10					
LRST-1503-415	15	20	0.92 - 2.3	32 - 81	8	69 ± 3	1197 x 605 x 1220	130	RC 3/4	340
LRST-1501-415			0.8 - 2.0	28 - 70	10					

### Note :

- Standard Voltage is 400V/50Hz
- Free Air Delivery (FAD) is measured as per ISO 1217: 2009 - Annex C
- Mean noise level measured at a distance of 1 m according to ISO 2151: 2004 using ISO 9614/2 (sound intensity method); tolerance ±3 dB(A)
- All performance parameters are as per JIS (Japanese Industrial Standards)
- Standalone Refrigerated Air Dryers, Heatless Air Dryers, Oil Removal Filters, Auto Drain Valves are also available upon request

# Active with Newest Technology



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