



## **ESHTEAL ARAK INDUSTRIAL ENGINEERING CO .**

Manufacturer of burners, valves  
and precision tools for steam boilers

# Burner

## Pressure Jet Burners

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# Burner Cataloge



## ABOUT US

Eshtearak Industrial Engineering Company is the only manufacturer of high-capacity rotary cup burners in the country, and these burners are used by all boiler companies in the country . Among the unique products produced by this company are power valves that are designed for saturated and superheated steam lines. This product was produced for the first time in the country in 2014 in the Mobarake steel complex and at a pressure of 70 bar It has been used successfully Eshtearak Industrial Engineering Company has been modernizing its production lines since 2003 and is currently equipped with more than 98 machines, 61 of which are CNC lathes and milling centers (referred to at the end) stepped into the field of producing products with modern sophisticated technology It should be mentioned that this company has succeeded in obtaining the knowledge-based badge on burners and valves during two consecutive periods and in order to enhance the brand and satisfy customers, the necessary standards such as ISIRI 7595, ISIRI 7594, ISO 3834, ISO 9001:2015 and implemented 5S .

## EMISSIONS

Following a philosophy of continuous improving, the R&D Laboratory is constantly working to produce better Results such as less harmful emissions and greater efficiency of the burner due to good combustion, which in turn creates great fuel savings. Many CFD 'computational fluid dynamics' projects have been completed to gain an accurate representation of the flow and mixing of the gases in the burner. In water tube boiler The design of the atomization system for liquid fuels will have a significant impact. Therefore, according to customers' requests, optimization on liquid fuel atomizer/ spray tip has been defined as new projects of this company .



## OUR PRODUCT RANGE



EW	EPB	ECB	ERD	PRD	EW
Doual Fuel	Doual Fuel	Doual Fuel	Doual Fuel	Doual Fuel	Doual Fuel
697 - 3300KW	900 - 3000KW	3.6 - 31MW	3074 - 1802KW	3074 - 1802KW	3074 - 1802KW



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The EPB series covers a firing range from 900kW through to 3000kW, and have been designed for use on hot water or industrial steam Boilers.

## EPB Series Burner



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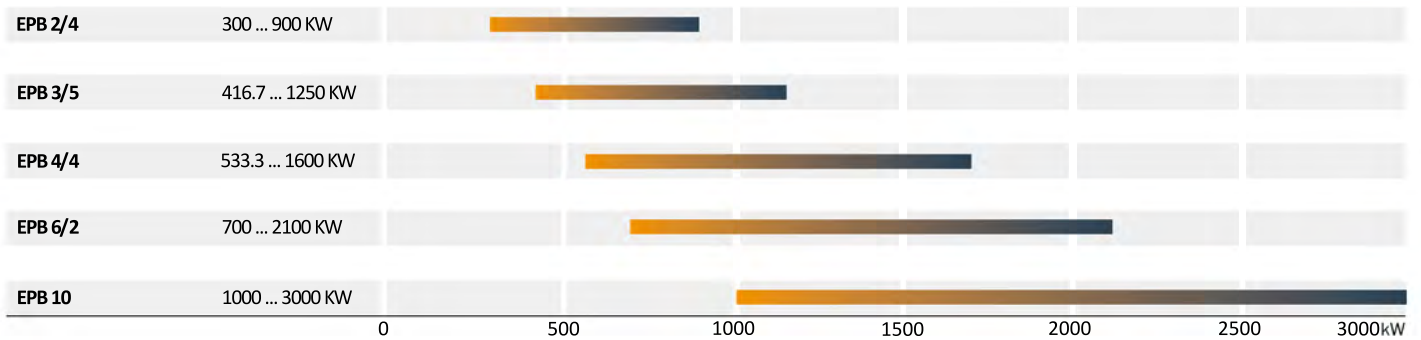
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📍 Factory: Hadid St-Haji Abad Industrial Zone 7th km  
of Qom Road-Arak-Iran

📍 Head office: 4th floor-No.3 Apartment Asef Vaziri  
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## RANGE OVERVIEW

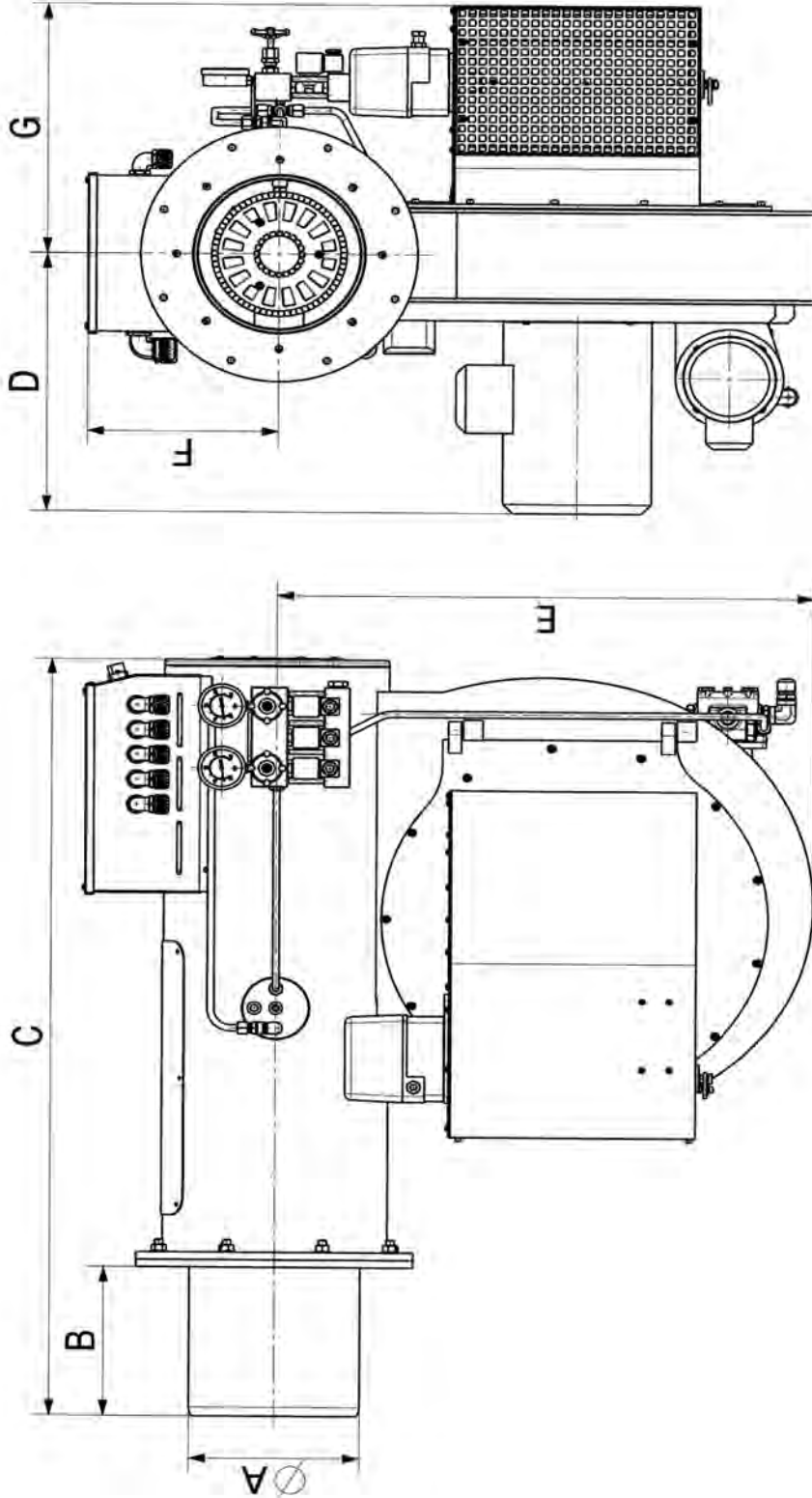


## MAIN FEATURES

- The EPB burner series is characterised by a monoblock structure .
- For Two Stage Operation use twin simplex oil nozzles, for fully modulating operation use a single spill-back oil nozzle.
- Suitable for gas (LPG, NG) and oil (Light oil Heavy oil).
- turndown of 4:1 on gas, and 3:1 on oil.
- Designed in accordance with the European Standard EN 676 and EN267 and approved in accordance with the Iranian Standard ISIRI 7594 and ISIRI 7595.
- Emission class: Low NOx class 2 ( $\leq 120$  mg/kWh).
- Stainless steel diffusers and blast tube cones.
- Simple construction allows easy access to internal components for maintenance.
- Large rear flame viewing port, enabling a unique view of the combustion process.
- Version with fully electronic Burner Management System available for Modulating models (LAMTEC combustion management system).



## Dimensions (approx. ) in mm



BURNER MODEL	A	B	C	D	E	F	G
EPB 2.4	224	215	900	320	510	240	280
EPB 3.5	224	215	900	320	510	240	280
EPB 4.4	224	215	1200	430	800	300	410
EPB 6.2	252	240	1230	430	800	300	410
EPB 10	270	310	1300	430	800	300	410



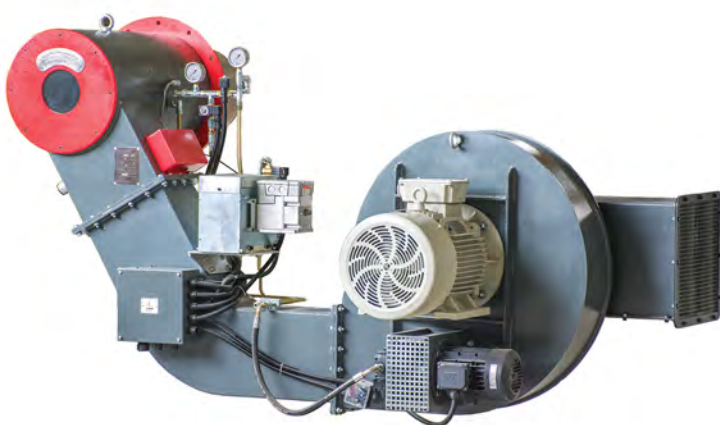
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The ECB series covers a firing range from 3.6 MW through to 31 MW, and have been designed for use on hot water or industrial steam Boilers.

## ECB Series Burner



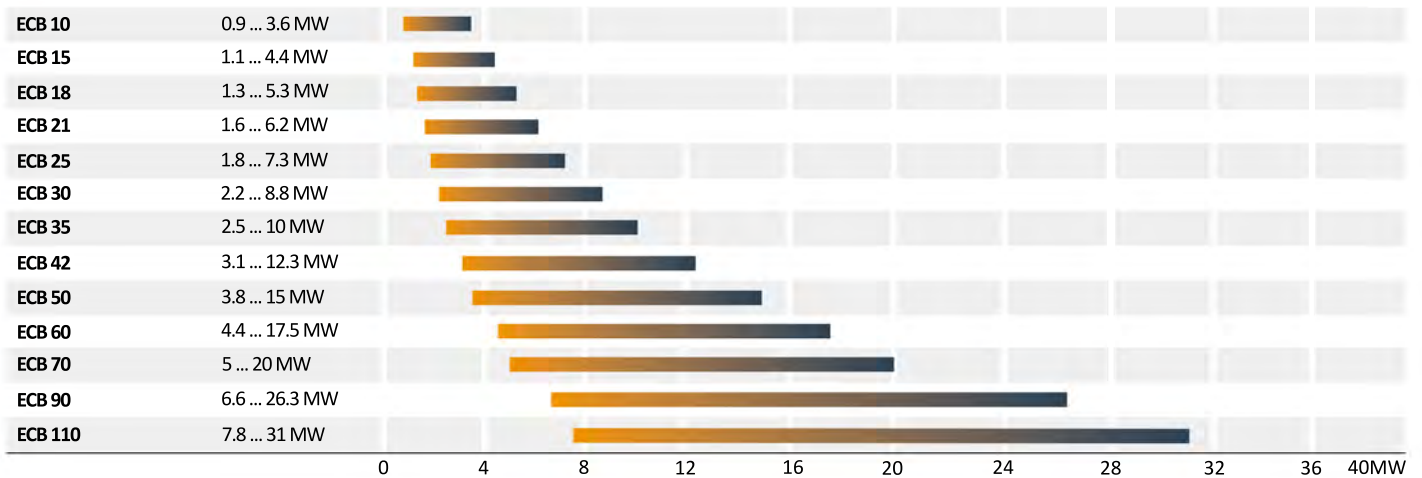
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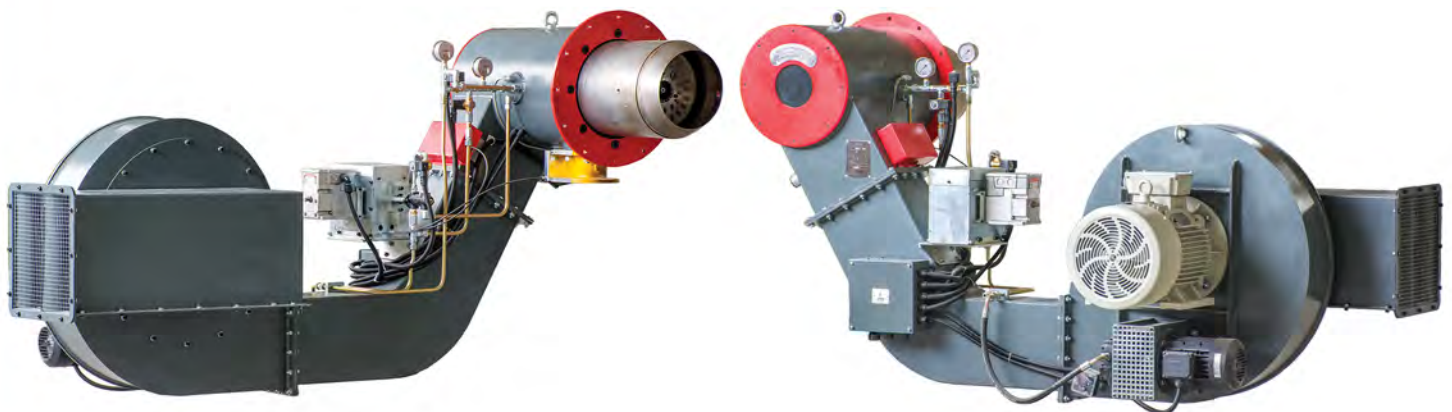
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📍 Head office: 4th floor-No.3 Apartment Asef Vaziri alley southern Bahar St Taleghani St-Tehran-Iran

## RANGE OVERVIEW



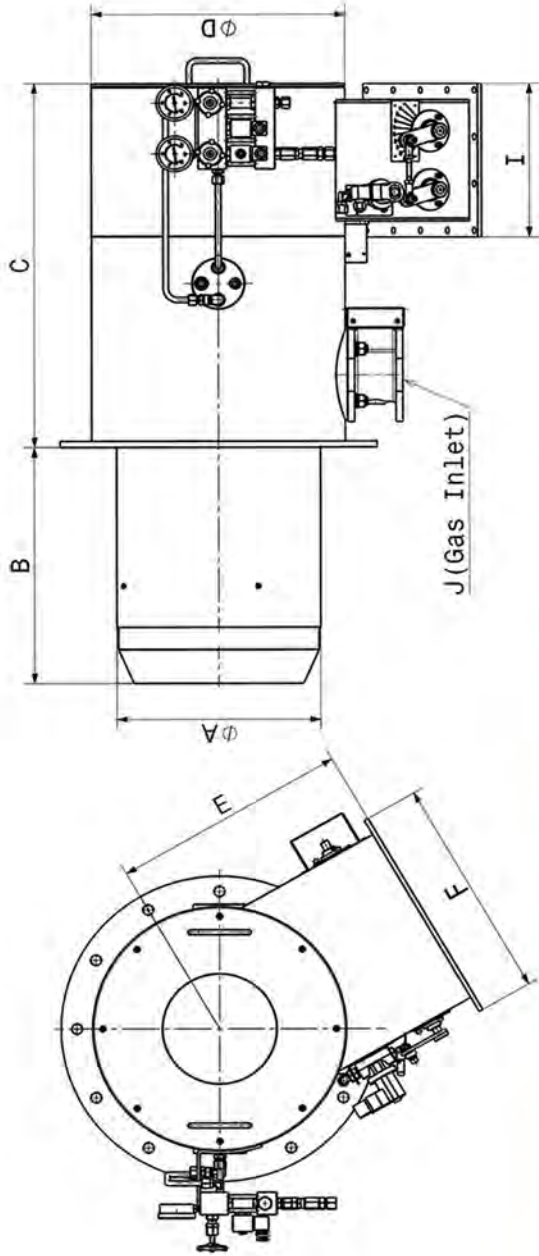
## MAIN FEATURES

- Large rear flame viewing port, enabling a unique view of the combustion process .
- Simple construction allows easy access to internal components for maintenance.
- Multiple fixings on the burner rear section allows fan to be mounted in a variety of different positions to overcome site space restraints.
- Stainless steel diffusers and blast tube cones.
- Designed in accordance with the European Standard EN 676 and EN267 and approved in accordance with the Iranian Standard ISIRI 7594 and ISIRI 7595.
- turndown of 4:1.
- Version with fully electronic Burner Management System available (LAMTEC combustion management system).
- Emission class: Low NOx class 2 ( $\leq 120$  mg/kWh).
- Suitable for gas (LPG, NG) and oil (Light oil, Heavy oil).





## Dimensions (approx. ) in mm



BURNER MODEL	A	B	C	D	E	F	I	J
ECB-M 10	305	396	653	395	411	376	276	2 1/2"
ECB-M 15	316	396	653	395	411	376	276	2 1/2"
ECB-M 18	370	431	715	480	450	434	302	3"
ECB-M 21	386	464	715	480	450	434	302	3"
ECB-M 25	425	556	830	630	560	575	420	4"
ECB-M 30	455	575	830	630	560	575	420	4"
ECB-M 35	500	595	830	630	560	575	420	4"
ECB-M 42	550	726	1220	835	663	730	603	6"
ECB-M 50	590	768	1220	395	663	730	603	6"
ECB-M 60	645	783	1220	835	663	730	603	6"
ECB-M 70	700	809	1220	835	663	730	603	6"
ECB-M 90	785	986	1623	1055	835	905	702	8"
ECB-M 110	880	1035	1623	1055	835	905	702	8"

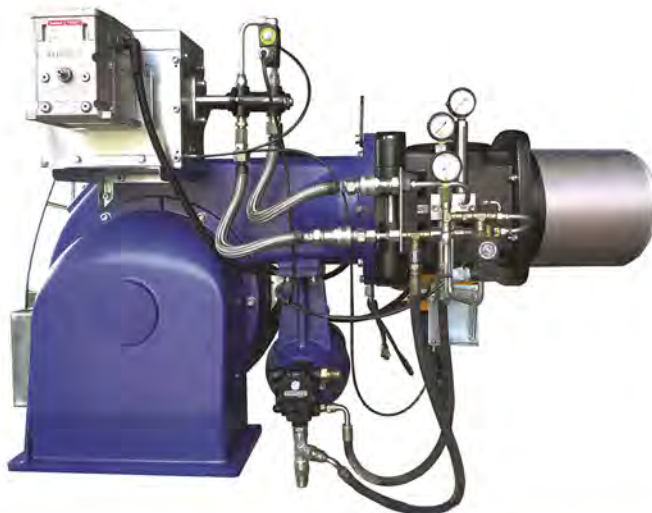
Eshteal Arak Industrial Engineering Company is the only manufacturer of high-capacity rotary cup burners in the country, and these burners are used by all boiler companies in the country. Among the unique products produced by this company are power valves that are designed for saturated and superheated steam lines. This product was produced for the first time in the country in 2014 in the Mobarake steel complex and at a pressure of 70 bar It has been used successfully Eshteal Arak Industrial Engineering Company has been modernizing its production lines since 2003 and is currently equipped with more than 98 machines, 61 of which are CNC lathes and milling centers (referred to at the end), stepped into the field of producing products with modern sophisticated technology It should be mentioned that this company has succeeded in obtaining the knowledge-based badge on burners and valves during two consecutive periods, and in order to enhance the brand and satisfy customers, the necessary standards such as ISIRI 7595, ISIRI 7594, ISO 3834, ISO 9001:2015 and implemented 5S



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The EW series covers a firing range from 1162kW through to 3300kW, and have been designed for use on hot water or industrial steam Boilers.

## EW Series Burner



## ESHTEAL ARAK

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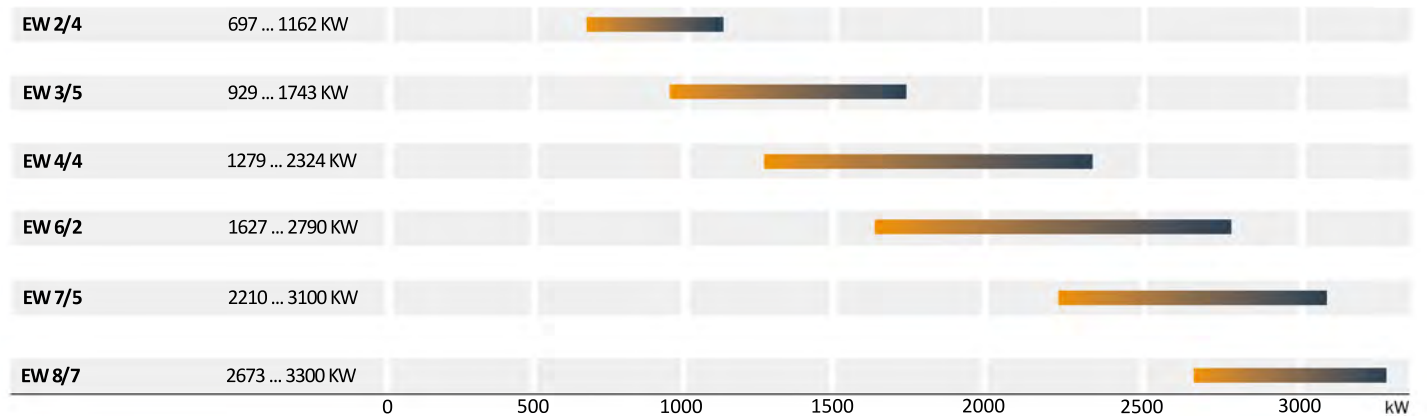
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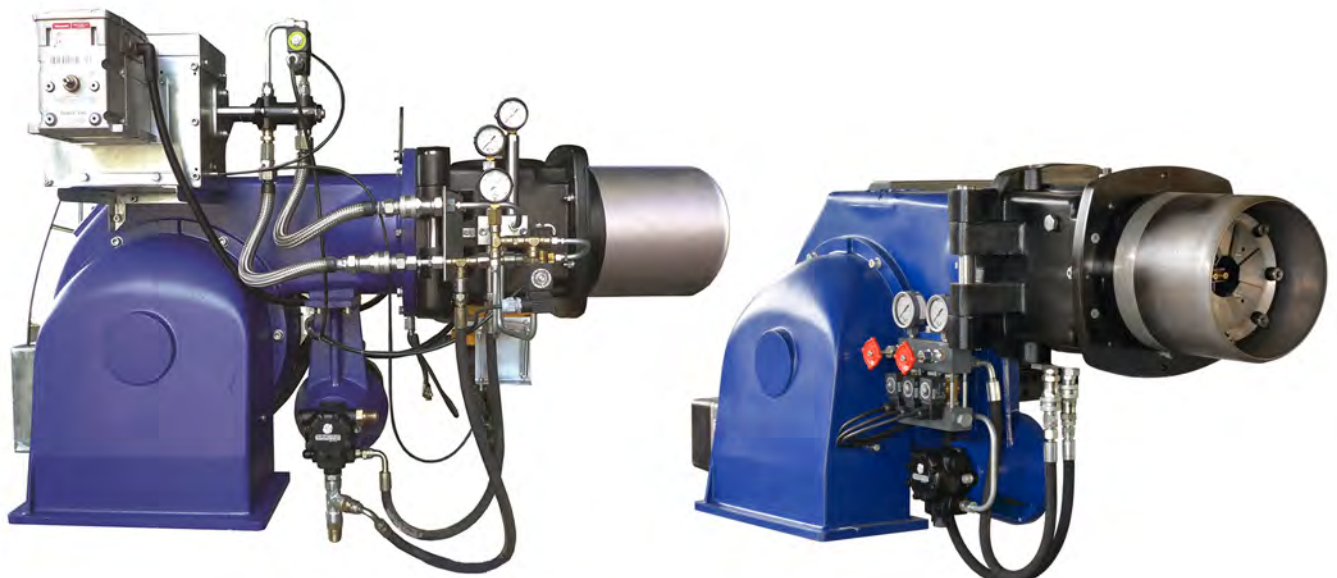


## RANGE OVERVIEW

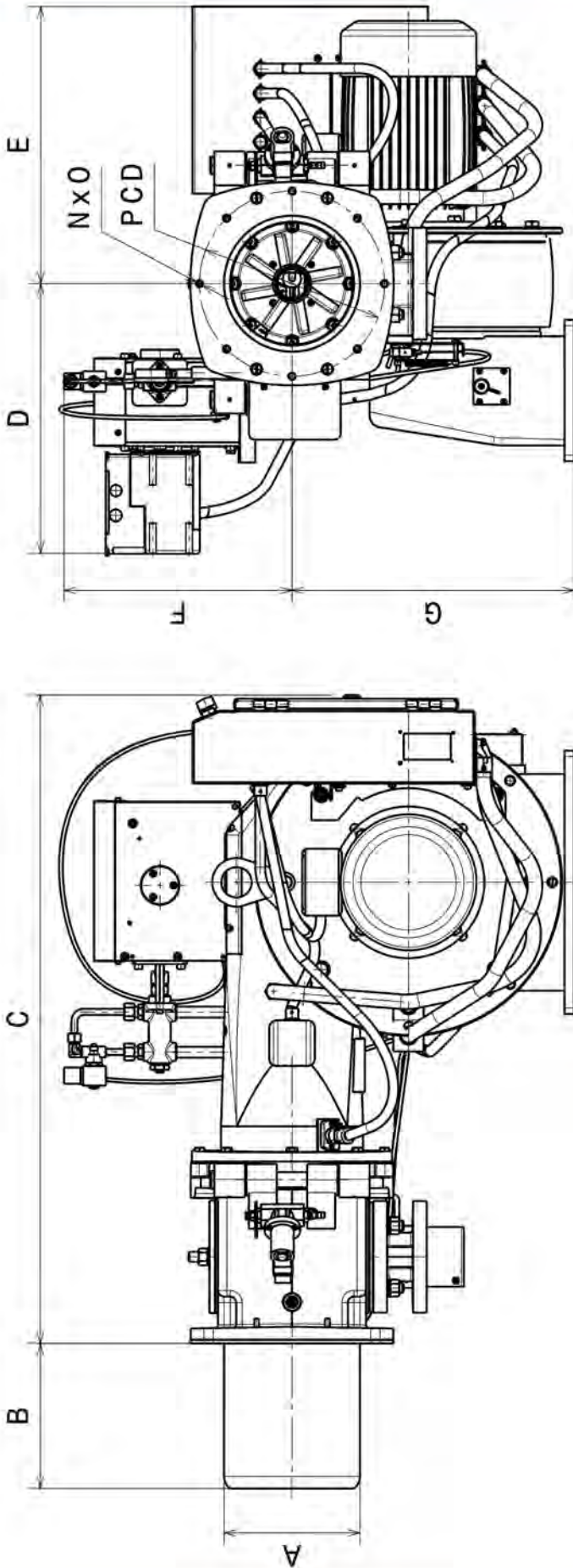


## MAIN FEATURES

- For Two Stage Operation use twin simplex oil nozzles, the oil nozzles are sized to give a turndown ratio 2:1.
- For fully modulating operation use a single spill-back oil nozzle. If the burner has been correctly matched to the appliance, a turndown ratio of up to 3:1.
- Suitable for gas (LPG, NG) and oil (Light oil, Heavy oil).
- Suitable for high resistance boilers.
- Designed in accordance with the European Standard EN 676 and EN267 and approved in accordance with the Iranian Standard ISIRI 7594 and ISIRI 7595.
- Fully closing air damper.
- Preheater available for Heavy-oil.
- Diffuser controls the combustion air flow and creates a pressure drop across the burner head, promoting good fuel/air mixing and flame stability.
- Emission class: Low NOx class 2 ( $\leq 120$  mg/kWh)
- Version with fully electronic Burner Management System available for Modulating models (LAMTEC combustion management system).



# Dimensions (approx. ) in mm



BURNER MODEL	A	B	C	D	E	F	G	Hole NO.	d	PCD
EW 2.4	224	240	1070	460	460	400	500	8	12	305
EW 3.5	224	240	1070	460	460	400	500	8	12	305
EW 4.4	224	240	1070	460	460	400	500	8	12	305
EW 6.2	252	240	1070	460	460	400	500	8	12	305
EW 7.8	252	240	1070	460	460	400	500	8	12	305
EW 8.7	252	240	1070	460	460	400	500	8	12	305



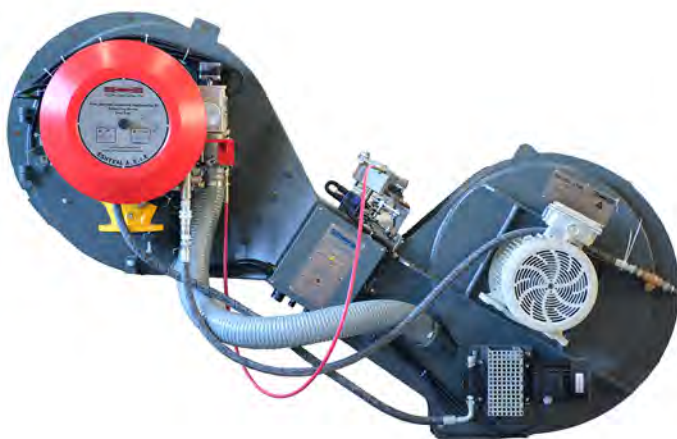
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The rotary cup series covers a firing range from 3740kW through to 18200kW, and have been designed for use on hot water or industrial steam Boilers.

## ERD Series Burner



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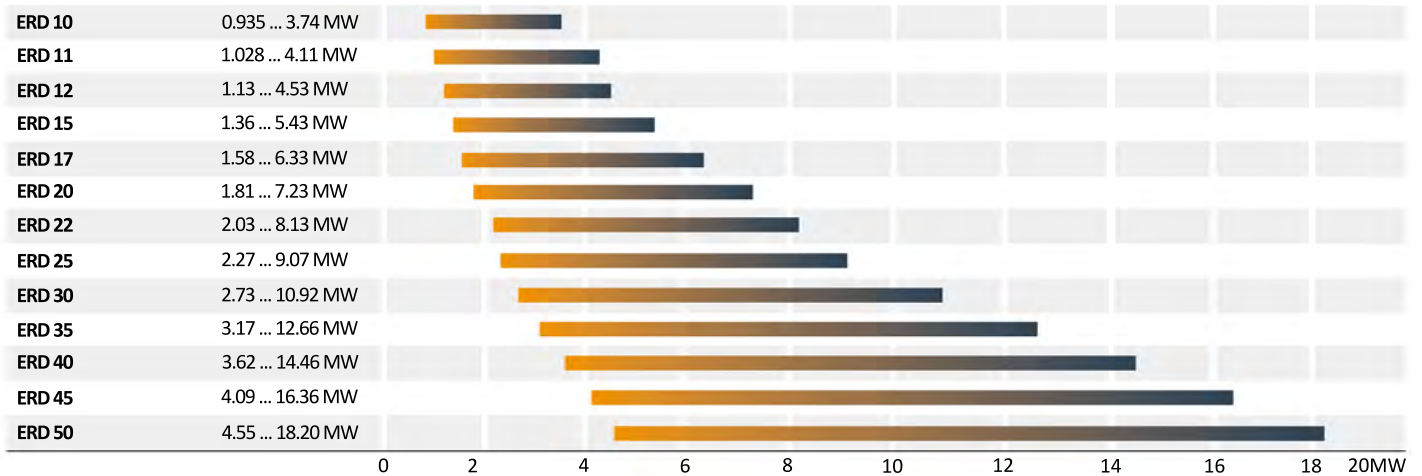
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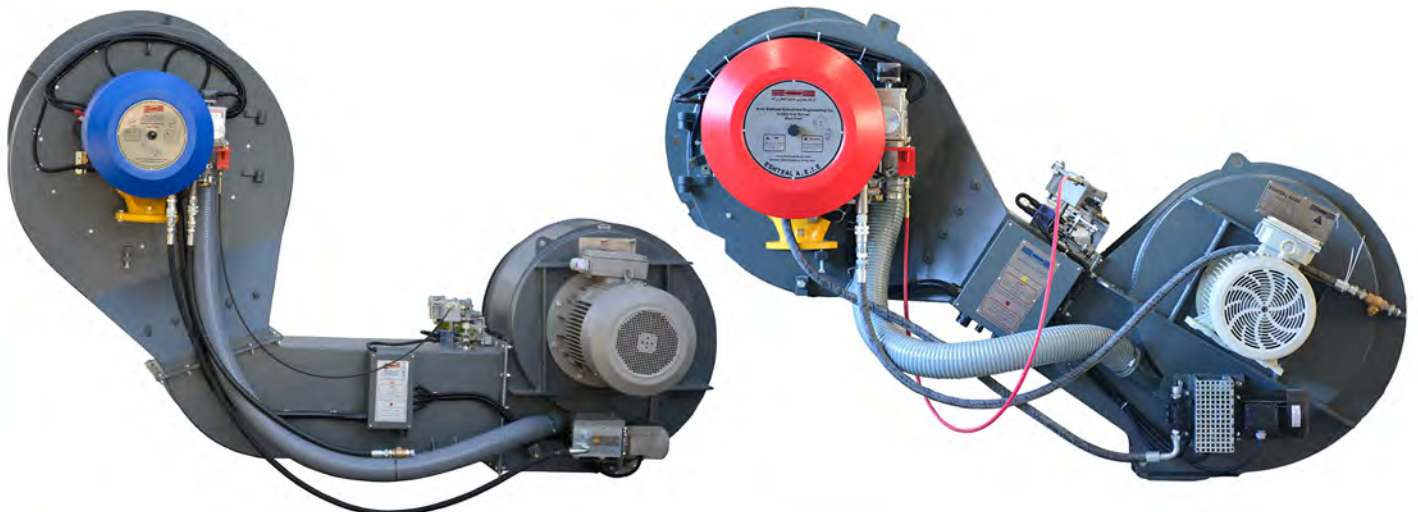
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## RANGE OVERVIEW

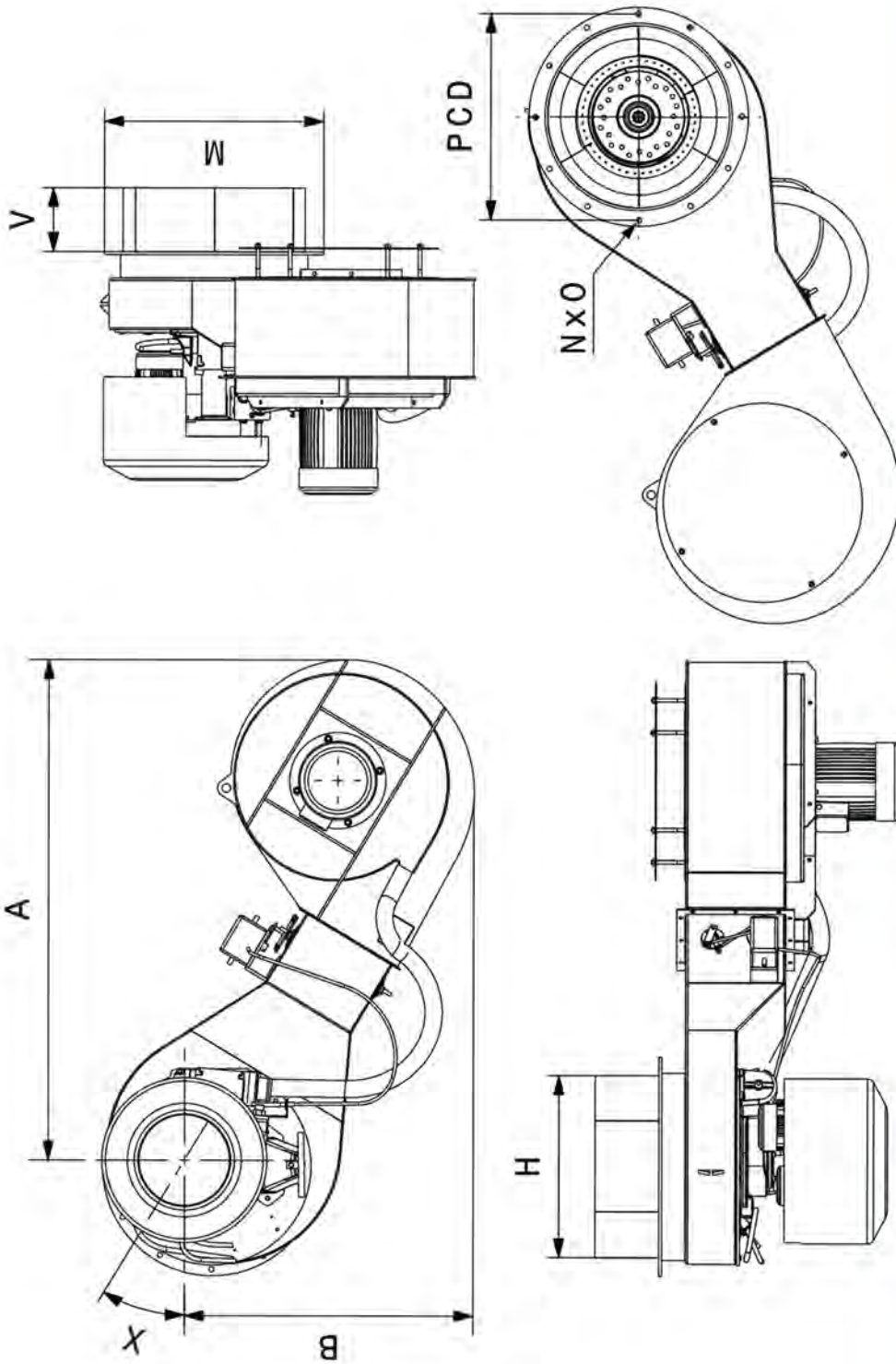


## MAIN FEATURES

- Suitable for almost all combustion chamber geometries.
- In a rotary cup burner, there are separate ducts provided for primary and secondary air, this gives a well-controlled flame shape.
- Low fuel supply pressure required.
- High efficiency, low maintenance costs and long service life.
- turndown of 4:1.
- Constant velocity design wind box for improved air distribution and performance over entire turn-down range.
- Designed in accordance with the European Standard EN 676 and EN267 and approved in accordance with the Iranian Standard ISIRI 7594 and ISIRI 7595.
- Emission class: Low NOx class 2 ( $\leq 120$  mg/kWh).



## Dimensions (approx. ) in mm



BURNER MODEL	A	B	H	M	V	X	N	O	PCD
ERD-PRD 5-12	1700	1150	635	765	224	40	12	19	720
ERD-PRD 14-20	2000	1080	735	865	256	32	12	19	814
ERD-PRD 22-30	2200	1150	862	992	218	32	12	19	941
ERD-PRD 35-50	2400	1300	1080	1210	403	32	18	19	1144
	2550	1350			37				

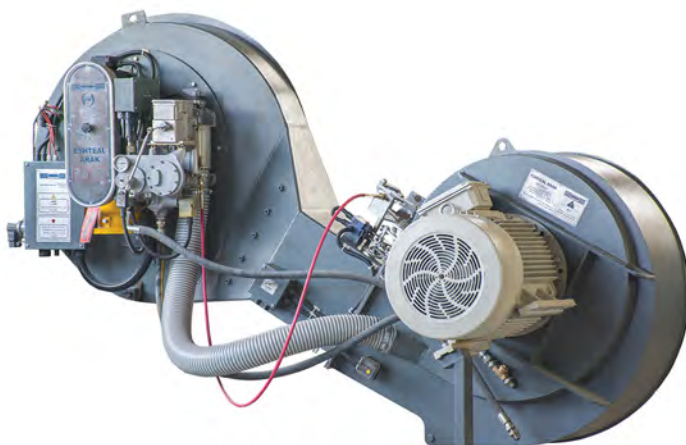


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The rotary cup series covers a firing range from 3740kW through to 18200kW, and have been designed for use on hot water or industrial steam Boilers.

## EW Series Burner



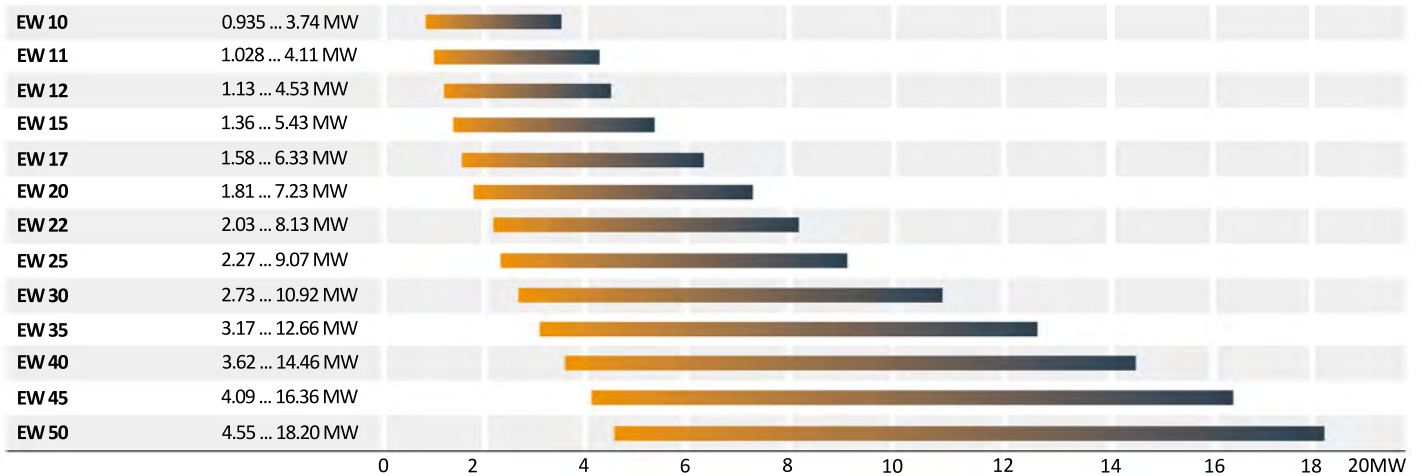
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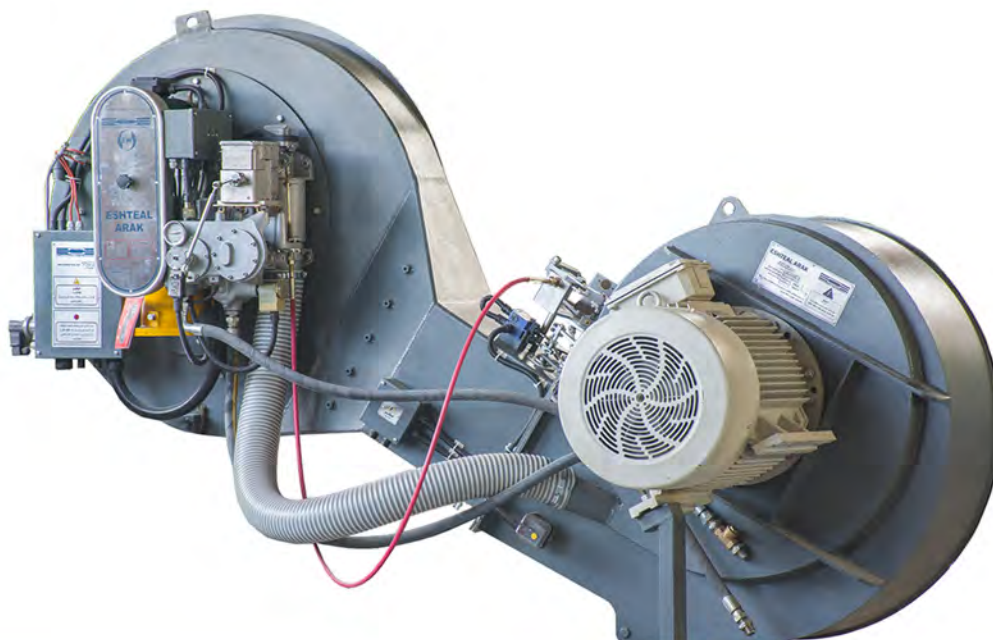
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## RANGE OVERVIEW

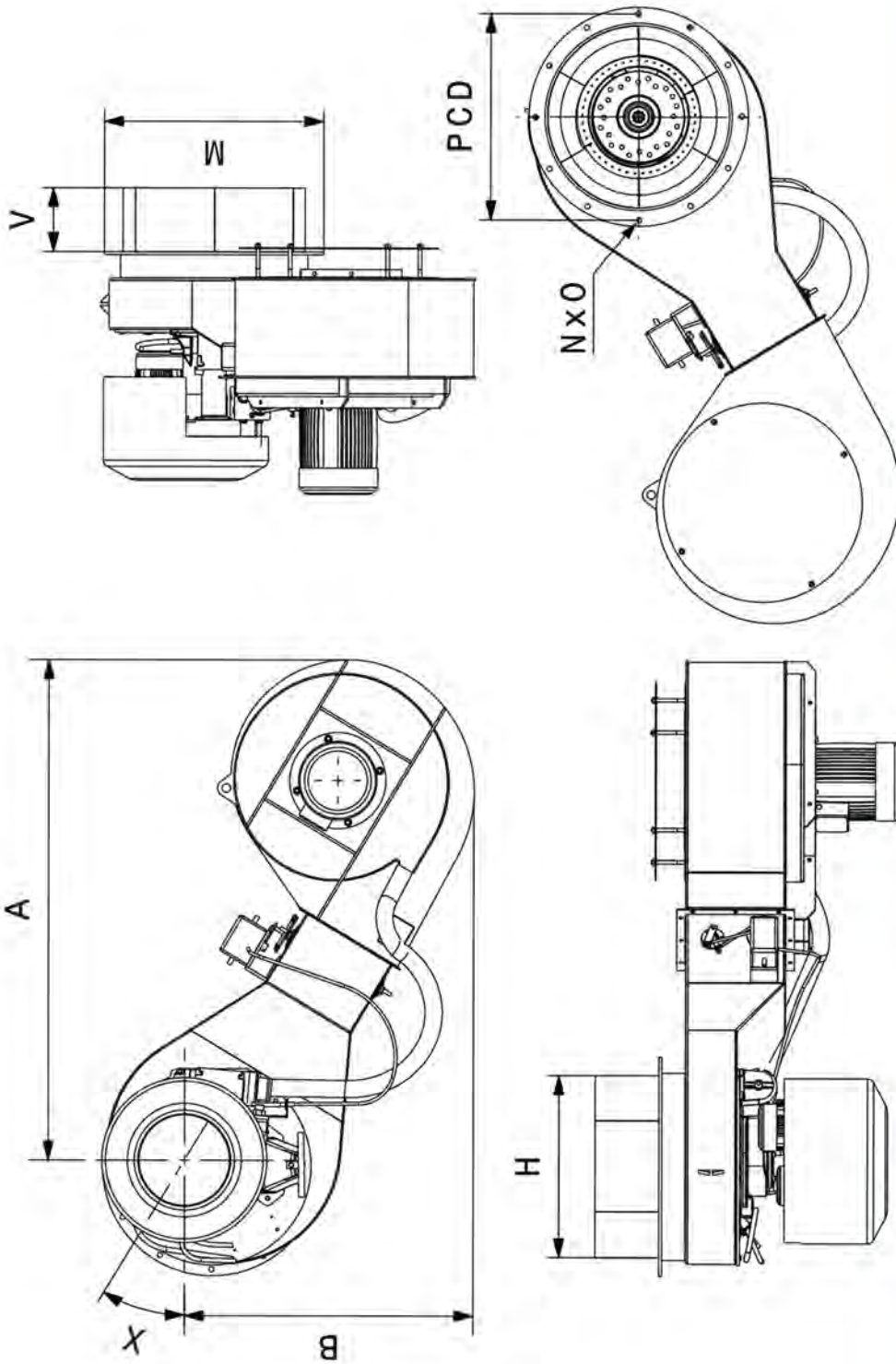


## MAIN FEATURES

- Suitable for almost all combustion chamber geometries.
- The oil pumping and metering system is incorporated in a single assembly and fitted to the burner machine. The oil control valve, known as the voluvalve, ensures the correct proportion of oil, is directed to the atomizer to meet the load requirements.
- Low fuel supply pressure required.
- High efficiency, low maintenance costs and long service life.
- turndown of 4:1.
- Constant velocity design wind box for improved air distribution and performance over entire turn-down range.
- Designed in accordance with the European Standard EN 676 and EN267 and approved in accordance with the Iranian Standard ISIRI 7594 and ISIRI 7595.
- Emission class: Low NOx class 2 ( $\leq 120$  mg/kWh).
- In a rotary cup burner, there are separate ducts provided for primary and secondary air, this gives a well-controlled flame shape.



# Dimensions (approx. ) in mm



BURNER MODEL	A	B	H	M	V	X	N	O	PCD
EW 5-12	1700	1150	635	765	224	40	12	19	720
EW 14-20	2000	1080	735	865	256	32	12	19	814
EW 22-30	2200	1150	862	992	218	32	12	19	941
EW 35-50	2400	1300	1080	1210	403	32	18	19	1144
	2550	1350				37			



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The rotary cup series covers a firing range from 3740kW through to 18200kW, and have been designed for use on hot water or industrial steam Boilers.

## PRD Series Burner



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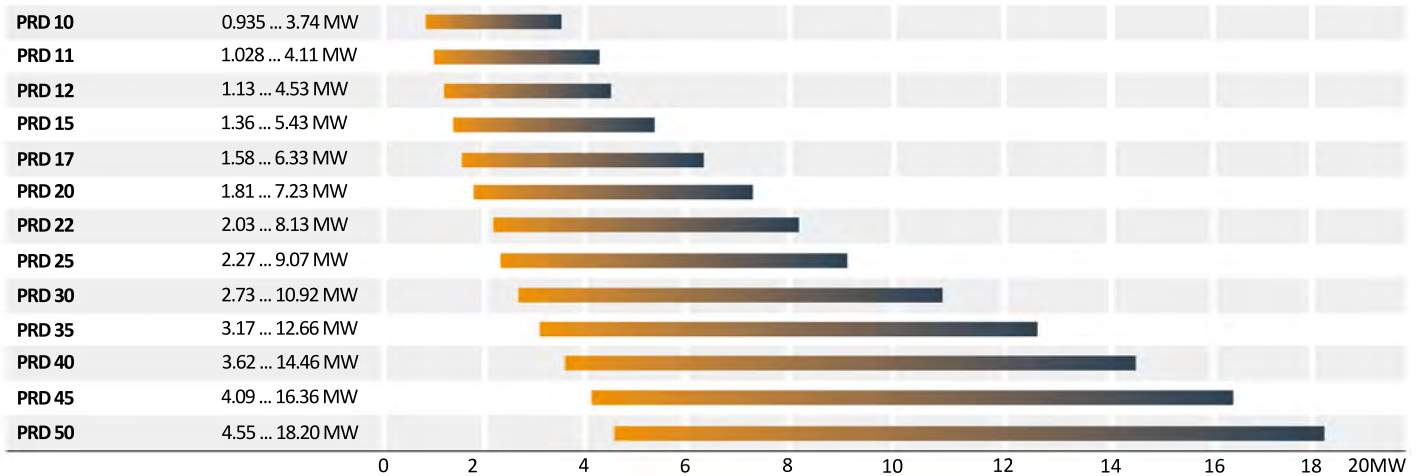
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## RANGE OVERVIEW

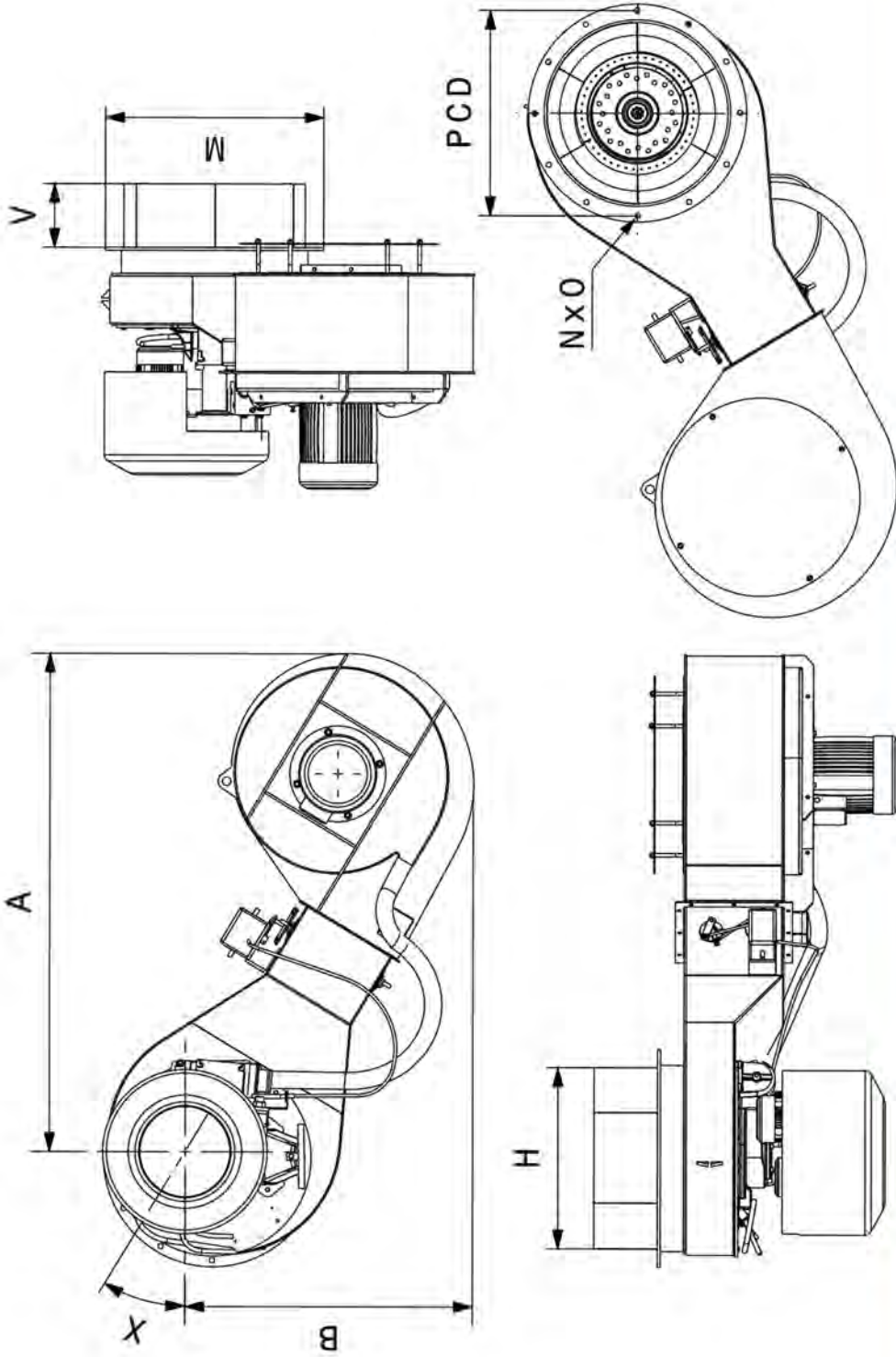


## MAIN FEATURES

- Suitable for almost all combustion chamber geometries.
- In a rotary cup burner, there are separate ducts provided for primary and secondary air, this gives a well-controlled flame shape.
- Low fuel supply pressure required.
- PRD burner with LAMTEC systems increase the efficiency of power plants and combustions, reduce fuel consumption, and particularly decrease the emission of polluting CO<sub>2</sub>.
- High efficiency, low maintenance costs and long service life.
- turndown of 4:1.
- Constant velocity design wind box for improved air distribution and performance over entire turn-down range.
- Designed in accordance with the European Standard EN 676 and EN267 and approved in accordance with the Iranian Standard ISIRI 7594 and ISIRI 7595.
- Emission class: Low NO<sub>x</sub> class 2 ( $\leq 120$  mg/kWh).

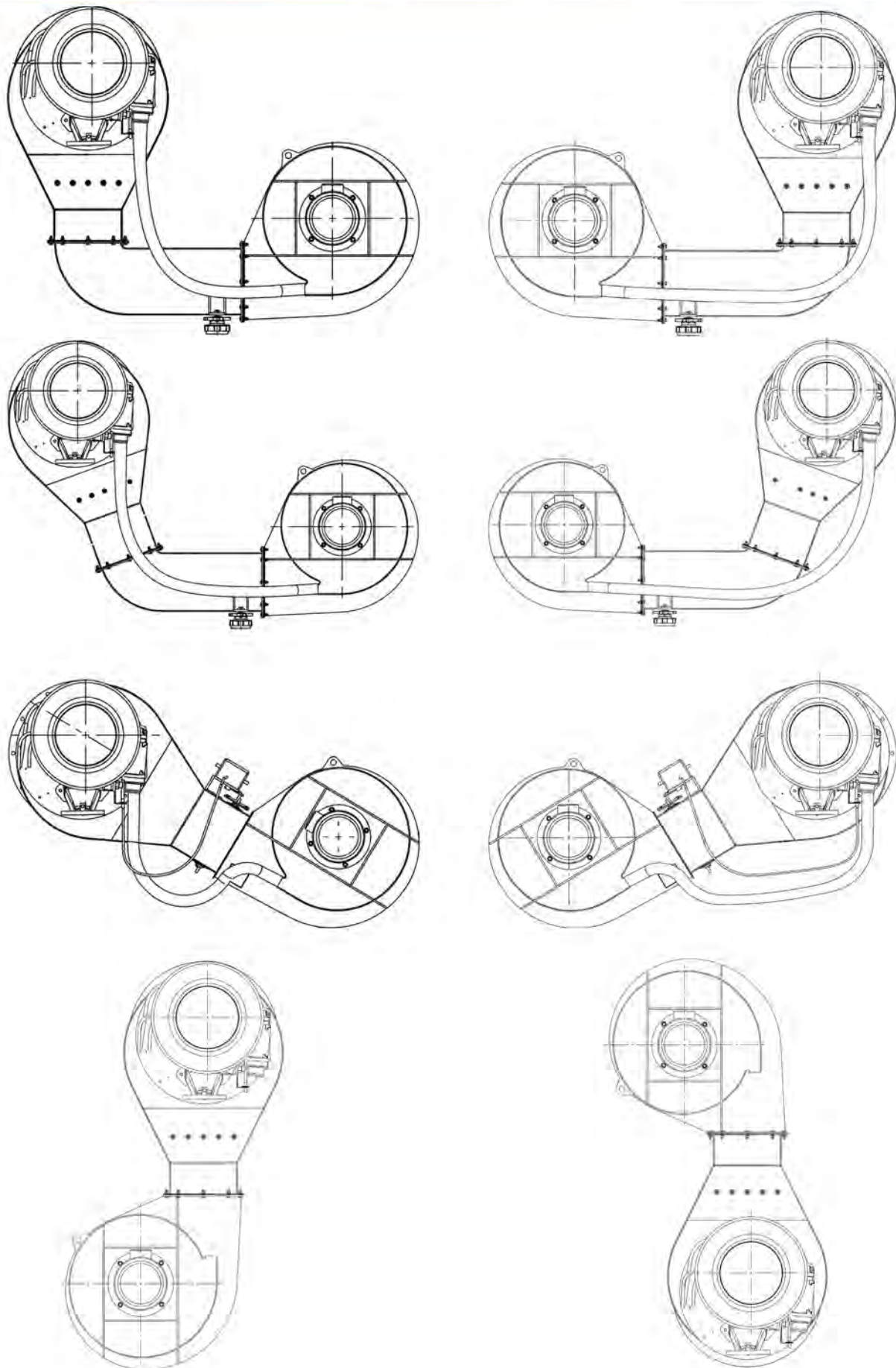


# Dimensions (approx. ) in mm



BURNER MODEL	A	B	H	M	V	X	N	O	PCD
ERD-PRD 5-12	1700	1150	635	765	224	40°	12	19	720
ERD-PRD 14-20	2000	1080	735	865	256	32°	12	19	814
ERD-PRD 22-30	2200	1150	862	992	218	32°	12	19	941
ERD-PRD 35-50	2400	1300	1080	1210	403	32°	18	19	1144
	2550	1350				37°			





According to the dimensions and design of the boiler, the burner can be installed at different angles.

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