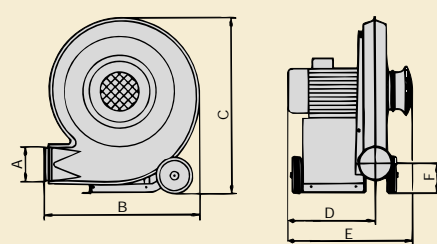


Data

Direct driven blowers									
	HP	kW	Min. fuse rating (approx.)	Current consumption A	Max. air flow rate m ³ /h	Max. press mm WG	Total weight kg	Motor rpm	Rotor rpm
TRL 20	2	1,5	10	3,4	1900*)	250	35	3000	2850
TRL 40	4	3	16	6,3	2600*)	350	67	3000	2850
TRL 55	5,5	4	16	8,5	2600*) 1800	650	76	3000	2850
TRL 75	7,5	5,5	20	11,5	3200	650	96	3000	2850
V-belt drive blowers									
TRL 100	10	7.5	25	15,5	1800	950	129	3000	3650
TRL 150	15	11	35	21,5	1800	1300	157	3000	4200
TRL 200	20	15	35	29	1800	1700	195	3000	4700
TRL 300	30	22	63	41,5	1800	2300	324	3000	4100
TRL 500	50	37	100	69,5	1800	3500	468	3000	4300

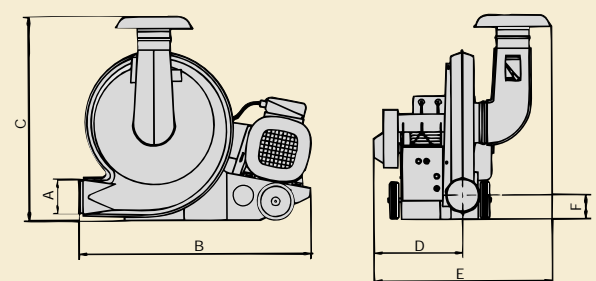
*) Venturi required

All dimensions in mm



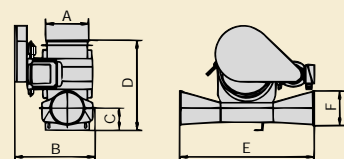
DIRECT DRIVE BLOWERS

	OK 160	635	675	335	485	130
TRL 20	OK 160	755	840	420	580	120
TRL 40	OK 160	755	840	420	670	129
TRL 55	OK 160	755	840	420	580	140



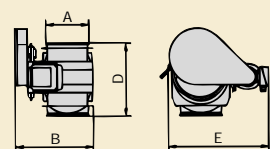
V-BELT DRIVE BLOWERS

	OK 160	1140	830	435	695	120
TRL 100	OK 160	1140	830	435	695	120
TRL 150	OK 160	1140	1000	435	875	120
TRL 200	OK 160	1225	930	585	1135	120
TRL 300	OK 160	1380	1005	290	995	110



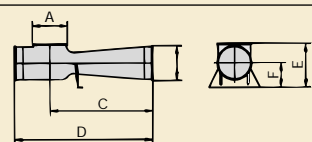
ROTARY VALVES, HORIZONTAL OUTLET

	OK 200	370	min 110 max 130	min 445 max 465	660	OK 160
CAD 20-2	OK 200	460	120	495	850	OK 160
CAD 30	OK 200	490	105	730	600	OK 160
CAD 40	OK 200					



ROTARY VALVES, VERTICAL OUTLET

	OK 200	360		360	495	
CAD 20-2	OK 200	530		390	535	
CAD 30	OK 200	480		565	705	
CAD 40	OK 200					



VENTURI

	OK 160	OK 160	500	670	min 220 max 275	min 100 max 155
TF 20/40/55	OK 160	OK 160	500	670	min 220 max 275	min 100 max 155

Drying

In addition to conveying and ventilating, TRL 75 may be used for drying/conditioning. The 4-5°C heating of the air provided by the blower reduces the relative humidity and ensures efficient drying/conditioning.

At relative humidities of:	%	50	60	70	80	90	95	100
air at 15°C can dry again to:	%	12,0	13,5	15,0	16,5	20,0	23,8	27,0
TRL 75 can reduce m.c. of grain to:	%	10,7	11,5	12,4	13,7	14,3	15,1	16,0

Capacities

Conveying capacities (t/h, cleaned and dried barley)	10 m	20 m	30 m	40 m	50 m	60 m	80 m	100m	120m	150m	200m
TRL 20 + TF 20	2,5	2,0	1,7	1,4	1,2	1,0	0,7	0,5			
TRL 40 + TF 40	4,3	3,6	3,0	2,6	2,3	2,0	1,6	1,2			
TRL 55/75 + TF 55	4,7	3,9	3,3	2,9	2,5	2,2	1,8	1,4	1,1	0,8	
TRL 55/75 + CA 20	8,7	7,4	6,4	5,6	4,9	4,4	3,5	2,9	2,4	1,8	
TRL 100 + CA 20	15,6	13,8	11,9	10,3	9,1	8,0	6,4	5,2	4,3	3,2	2,0
TRL 150 + CA 20	15,6	15,5	15,4	15,0	13,2	11,7	9,3	7,6	6,2	4,6	2,9
TRL 150 + CA 30	23,3	19,7	17,0	14,8	13,0	11,5	9,2	7,5	6,1	4,6	2,9
TRL 200 + CA 20	15,7	15,6	15,5	15,5	15,4	15,3	12,6	10,4	8,4	6,8	4,6
TRL 200 + CA 30	26,9	25,5	22,1	19,4	17,2	15,3	12,5	10,3	8,3	6,8	4,6
TRL 300 + CA 30	26,5	25,5	24,5	23,5	22,5	20,4	16,8	14,1	12,0	9,6	6,9
TRL 300 + CA 40	38,6	33,1	28,8	25,4	22,7	20,4	16,8	14,1	12,0	9,6	6,9
TRL 500 + CA 40	52,9	47,0	42,3	38,3	34,9	32,1	27,4	23,8	21,0	17,6	13,6

- Lengths include two 90° bends, 4 m vertical pipe + outlet cyclone.
- For each metre increase in the vertical pipe line the total pipe line is increased by 1,2 m.
- For each metre by which the vertical pipe line is reduced, the total pipe line length is reduced by 1,2 m.
- Each bend in addition to the two bends of the standard pipeline corresponds to one metre of extra length. This extra length depends on the conveying capacity and, furthermore, the blower size.

The following table shows the extra horizontal length per bend for the different blowers:

Blower	Extra-length, m
TRL 20 + TF 20	4,5
TRL 40 + TF 40	5,7
TRL 55/75 + TF 55	5,9
TRL 55/75 + CA 20	7,4
TRL 100	8,9
TRL 150	9,2
TRL 200	9,6
TRL 300	10,2
TRL 500	11,3

The above capacities apply to cleaned grain of a moisture content of max 15% at an air temperature of 20°C and a barometric pressure of 760 mm Hg.

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Dealer:



High-pressure Blowers TRL



A powerfull and flexible conveying system

- Ideal for conveying, drying, ventilating and extraction in grain handling installations
- Self-cleaning conveying system
- TRL - an integral part of a modular conveying system
- Flexible - the same equipment can be varied as required
- Easy to install
- All blower sizes can be connected to the same pipe system. For variation of capacity only the blower and feed unit of an existing system need to be replaced



Applications

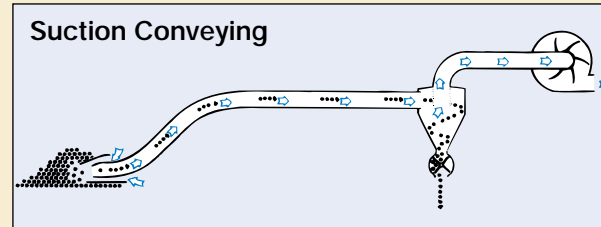
The TRL high-pressure blowers are suitable for a variety of applications and can form part of many flexible package solutions.

The high-pressure blowers are available in a wide range of sizes to match any specific conveyance requirement.

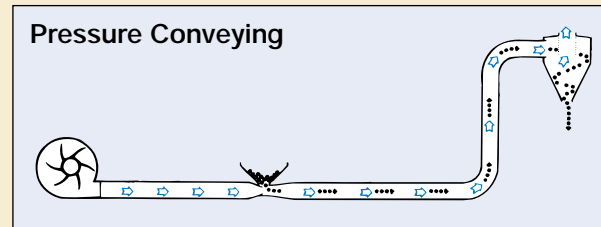
The use of the TRL high-pressure blower for conveying purposes ensures an entirely self-cleaning system which is not limited by the lay-out of the flow arrangement - whether vertical, horizontal, around corners or from one building to another. The system is ideal for farms requiring flexibility in conveying and processing different crops.

The range of accessories comprises rotary valves, cyclones and pipe systems, permitting utilization of the high-pressure blower for pressure and suction conveying, drying, cooling, and ventilating of crops.

The OK connections are common to all pipes, bends and other components, allowing them to be combined in a countless number of ways, with easy assembly by means of the OK quick-release couplings - without the use of tools.



Suction is used, for instance, when the material is delivered to a cleaner. At the same time, part of the dust is separated from the grain. The crop is sucked from the grain pit or store using a suction head. The material is pulled through the pipe system and is delivered to the cleaner via a cyclone and rotary valve. The dust may be discharged to the open or to a set of filter bags.



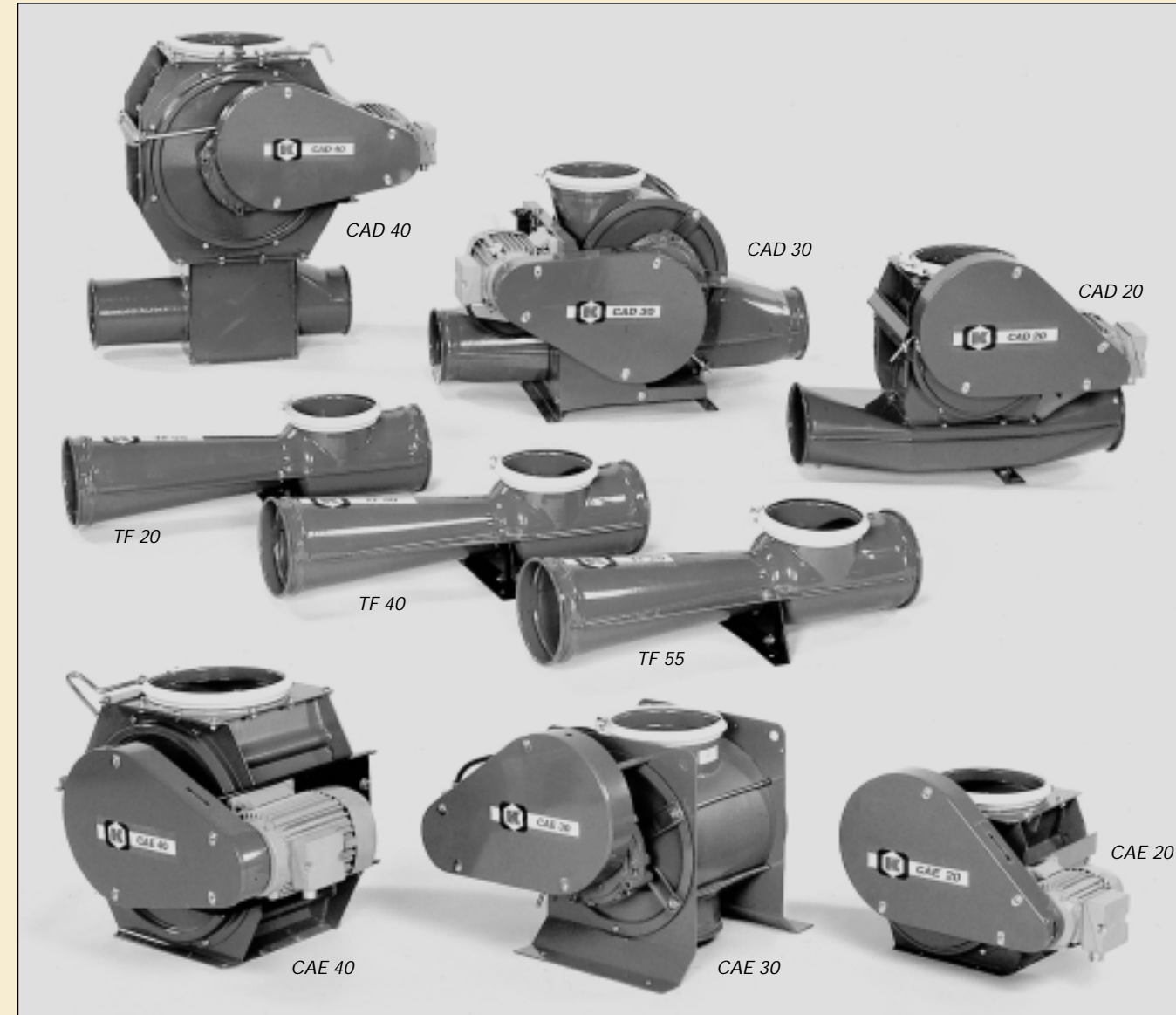
The conveying line is connected to the blowers outlet. The blower generates a powerful air stream through the pipes. The material to be conveyed is fed into the pipe system via an intake unit (venturi or rotary valve). By means of diverters the flow may be directed to different destinations.



Applications

TRL 20/40/55: Conveying, ventilating*, exhaust
 TRL 75: Conveying, drying, ventilating
 TRL 100/150/200/300/500: Conveying

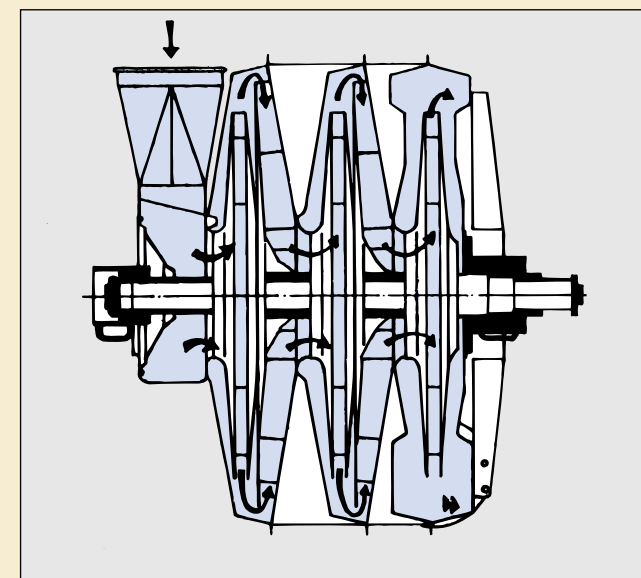
*Ventilating blowers types TRL 20/40 require a venturi.



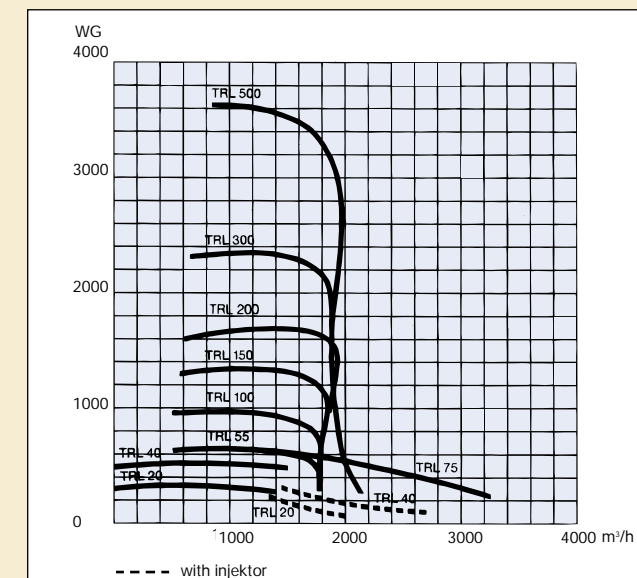
All rotary valves may be placed anywhere in horizontal pipelines and are resistant to dust and stones in the grain. Venturi TF are used as an alternative to rotary valves type CAD, resulting, however, in a lower capacity. The venturi is suitable for TRL blower types 20/40/55/75. The use of a hopper requires a pipe of at least 30 cm to be inserted between venturi and blower.

Rotary valves types CAD 20/30/40 are used in pressure conveying for delivery into an horizontal pipeline.

Rotary valves types CAE 20/30/40 are used in suction conveying for gravity discharge from cyclones.



As can be seen from the illustration (type TRL 500), each of the rotors increase the air pressure.



The air flow rate of the TRL blowers is approx. 1800 m³/h at different pressures depending on the type of blower. As a general rule, the higher the pressure the higher the capacity. TRL 500, a three-stage blower, can deliver a pressure of no less than 3500 mWG.



The pipe system comprises a wide range of straight pipes, bends, diverters, hoppers, cyclones, suction heads, etc. Assembly is effected by means of the patented OK quick-release couplings without the use of tools. See special brochure.



The patented OK quick-release coupling with lock ensures reliable connection during use and quick and easy adjustment of the equipment to different applications.



The rotary valve rotor is equipped with rubber blades in place of steel. The blades yield to stones, nails, etc. without being damaged.



The aerodynamic shape of the high-pressure blowers ensures high efficiency and low energy consumption.



The high-pressure blowers (except TRL 20/40/75) are equipped with automatic air intake regulators to keep the air velocity below 25 m/s - thus preventing grain damage - without loss of capacity.



The high-pressure blowers are designed as centrifugal fans with carefully balanced rotors. The vibration-free operation reduces noise level.