

# **KONGSKILDE** *TRL*



# Kongskilde Pneumatic Systems

## - Excellence in Grain Handling

### Important Features

- Economical and practical modular system. Installation and expansion is an easy DIY job with Kongskildes unique OK 160 pipe system.
  - Only basic tools required.
- Capacities from 2.5 to 53 t/h
  - conveying length up to 200 m.
- Gentle conveying – grain is cushioned by a high volume of air.
- Multi dimensional conveying – convey crops horizontal, vertical and around corners in one stretch – ideal for filling silos and flat stores.
- Self-cleaning conveying system – easy change from one variety to another.
- Low maintenance cost – no close tolerances in blower and feeder.
- Transportable – TRL blower, CAD feeder and pipes are easily moved from one farm/site to another keeping total investment at an absolute minimum.

### Applications

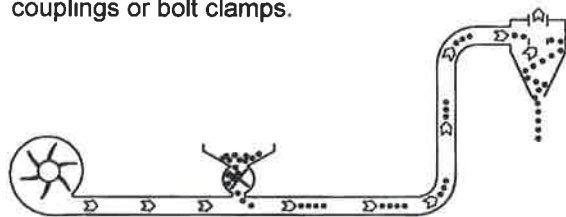
Kongskilde TRL pneumatic conveying systems are suitable for wheat, barley, oats, rye, corn, rape seed, canola, peas, soya beans, sesame and many other grains and granular products.

An ideal system for the farm and in agricultural processing industries.

The TRL high-pressure blowers and CAD feeders are available in a wide range of sizes to match almost any specific conveying needs, in- or out-door.

The use of the TRL high-pressure system is not limited by the flow arrangement or by complex layouts of outdoor silos or indoor building dimensions.

Kongskilde OK 160 pipe system fits all TRL models. Pipes, bends and other components can be combined in a countless number of ways, easily assembled by means of the OK quick-release couplings or bolt clamps.



### Conveying principle

Only two moving parts - blower and feeder!  
The blower generates a powerful air stream through the pipes. The material to be conveyed is fed into the pipe system via a venturi or rotary valve. The conveying line is connected to the feeder outlet. By means of diverters the flow may be directed to different destinations.





## High quality, strong components for long service life and consistent capacity



Kongskilde TRL blowers are available from 2 to 50 HP.

The Kongskilde single and multi stage "turbo impeller" fan is precision balanced and rotates in a "free-wheeling" environment. This ensures a low noise level and continuous capacity regardless of age.

TRL 500, a three-stage blower, can deliver a pressure of no less than 3500 mm WG.

Feeders may be placed anywhere in horizontal pipelines and are resistant to dust and stones in the grain.

TF venturies, for lower capacities, are used as an alternative to CAD rotary valves.

Rotary valves types CAD are used in pressure conveying for delivery into a horizontal pipeline.

Rotary valves types CAE are used in suction conveying systems for gravity discharge from cyclones.



**Big and Small, Simple and Complex, Indoor and Outdoor,  
- Kongskilde offers the best solution for your system.**



## Data

Direct driven blowers									
	HP/kW	Wiring 50 Hz	Min. fuse rating (approx)	Current consump- tion A	Max. air flow rate m <sup>3</sup> /h	Max. press. mm WG	Total weight kg	Motor rpm	Rotor rpm
TRL 20	2/1.5	3x400V	10	3.4	1900*)	250	35	3000	2850
TRL 40	4/3	3x400V	16	6.3	2600*)	350	67	3000	2850
TRL 55	5.5/4	3x400V	16	8.5	2600*) 1800	650	76	3000	2850
TRL 75	7.5	3x400V	20	11.5	3200	650	96	3000	2850
V-belt drive blowers									
TRL 100	10/7.5	3x400V	25	15.5	1800	950	129	3000	3650
TRL 150	15/11	3x400V	35	21.5	1800	1300	157	3000	4200
TRL 200	20/15	3x400V	35	29	1800	1700	195	3000	4700
TRL 300	30/22	3x400V	63	41.5	1800	2300	324	3000	4100
TRL 500	50/37	3x400V	100	69.5	1800	3500	468	3000	4300

\*) Venturi required

## Capacities

Conveying capacities (t/h) cleaned and dried barley)	Conveying Distance (m)										
	10	20	30	40	50	60	80	100	120	150	200
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

Capacities shown – tonnes per hour of dry clean barley.

The indicated total pipe lengths include a 4 m vertical lift.

Please contact Kongskilde for a capacity calculation and quotation for your specific conveying needs.

Since a number of variables such as temperature, humidity, bulk density, barometric pressure etc. may effect capacities in a pneumatic conveying system the capacities shown are intended as an approx. guide only.



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