

## Conveyors of DP Series

Medium efficient belt conveyors with the maximum output 3 x 90 kW.

The conveyors are above all adapted for routes with temporal mucking (within 1-2 years) namely for their simple mounting and dismounting and for the small built-up dimensions of the driving stations.

The driving stations drums are from the diameter 400mm (c) through 630mm (s) up to the diameter 800mm (v). They are either all-metal or they can be rubbered, or on the customer's request their surface can be with ceramic coating ensuring better friction coefficient between the drum and the belt covering, especially under heavy working conditions (with water).

The conveyor stretching is made according to its length either mechanically or through the use of the mechanical stretching device or it can be used stretching with counter-weight, electro-hydraulic stretching or air stretching.

The conveyors can be equipped with the belt holding bin. The conveyors can be operated in slants up to  $\pm 18^\circ$ , however they are not standardly equipped with the back-stop device (this can be delivered on the customer's request), but as standard they are equipped with electro-magnetic or electro-hydraulic brakes. One brake is delivered as standard. The conveyor transport speed is 1,6 – 3,15 m/s according to the concrete request and utilization. The gear-boxes are air-cooled and two-speed, the motors are also air-cooled.

The conveyors are equipped with sensors measuring the temperature of the driving station drums. On the customer's request it is also possible to mount sensors monitoring the temperature of the the reverse and discharging drum, reverse station revolutions, drums load, temperature of the motors and gear-boxes, belts swing etc.

The conveyors can be operated through the use of push-buttons for run-up and stop, however we offer standardly the automation control systems for the belt conveyors, namely electrical or air systems (kindly see below).

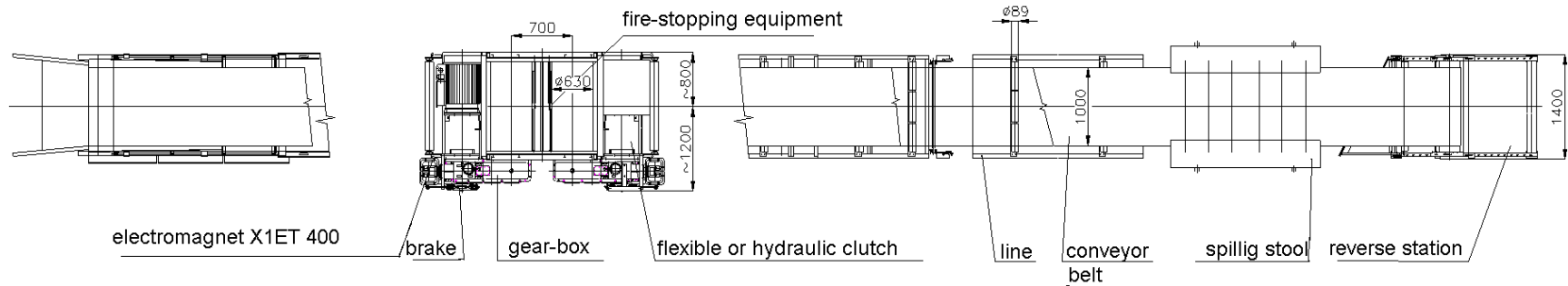
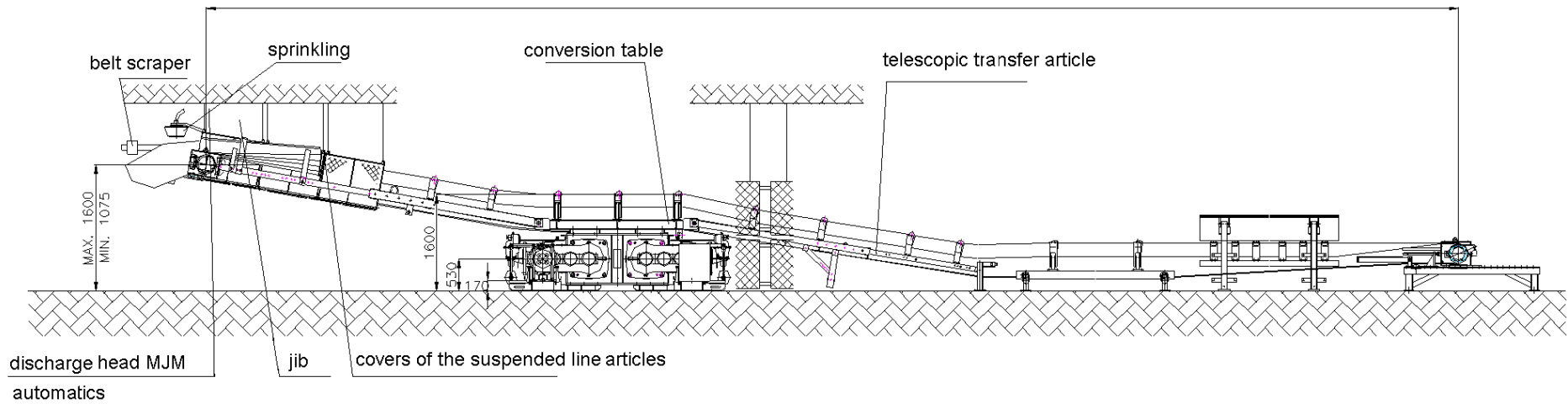
<b>Type</b>	<b>DP 800</b>	<b>DP 1000</b>	<b>DP 1200</b>	<b>DP 1400</b>
Max. transported volume (t/hour) for v = 2,5 m/s – for coal	510	835	1200	1600
Max. transported volume (t/hour) for v = 4 m/s – for coal	820	1330	1920	2570
Max. installed power	2x 55kW	3x 90kW	3x 90kW	4x 90kW
Max. length for the slant 0°				
Driving drums diameter	400mm and 630mm	400, 630 and 800mm	630mm and 800mm	800mm
Reverse drum and discharging roller diameter	315mm	315 and 500mm	315, 500 and 630mm	630mm
Gear-box type	RCV 30, PCE 55 SE	PCE 55 SE, EOPS 75P, EOPS 75K	EOPS 75P, EOPS 75K	EOPS 75P, EOPS 75K
Clutch type	Flexible double			
Motor type				
Brake	Shoe electro-mechanical			
Back-stop device	Can be supplied			
Stretching device	Mechanical without post-stretching, counter-weight, electro-mechanical, pneumatic			
Belt holding bin	ZPDP up to 100m			
Upper rollers	89 x 290	89 x 360	108 x 465	108 x 530
Lower rollers	89 x 450	89 x 530	108 x 700	108 x 750
Line type	DPTL 800	DPTL 1000	DPTS 1200	DPTS 1400
Permitted slant	+18°/ -12°			

## Conveyor Type DP 800

Conveyor Type	DP 800 C 30	DP 800 C 2x30	DP 800 S 2x55
Transported volume (for coal)	510 t/hour		640 t/hour
Conveyor length	150 m	300 m	500 m
Conveyor belt width	800 mm		
Installed power	1x 30kW	2x 30kW	2x 55kW
Max. permitted installed power	1x 30kW	2x 30kW	2x 55kW
Speed gears number	2		
Belt speed	1,25 m/s-2,5 m/s		1,6 m/s-3,15 m/s
Gear-box type	RBV 30, PCE 30 SI		PCE55SE
Clutch type	Flexible		
Brake type	Shoe electro-mechanical		
Driving drums number (as standard)	1	2	
Driving drums diameter	400 mm		630 mm
Discharging drum diameter	315 mm		315 mm (or 500 mm)
Reverse drum diameter	315 mm		315 mm (or 500 mm)
Driven reverse station possibility	No		
Line	Light standard version (it is possible to choose any type on the line list)		
Upper supports spacing	1150 mm (or 1500 mm)		
Lower supports spacing	2300 mm (or 3000 mm)		
Supporting elements length	2300 mm (or 3000 mm)		
Rope utilization possibility	No	Yes	
Upper rollers diameter / length	89 x 290		
Lower rollers diameter / length	89 x 450		
Further possible rollers diameter	108 mm or 133 mm		
Conveyor permitted ascending (without auxiliary equipment)	+ 10°	+ 18°	
Conveyor permitted descending (without auxiliary equipment)	- 8°	- 12°	
Stretching device possibility	According to request and space available: counter-weight, electro-mechanical, pneumatic		

# BELT CONVEYOR DP 800 C

CONVEYOR LENGHT (UP TO 300m without the stretching equipment,  
UP TO 500m with the stretching equipment)

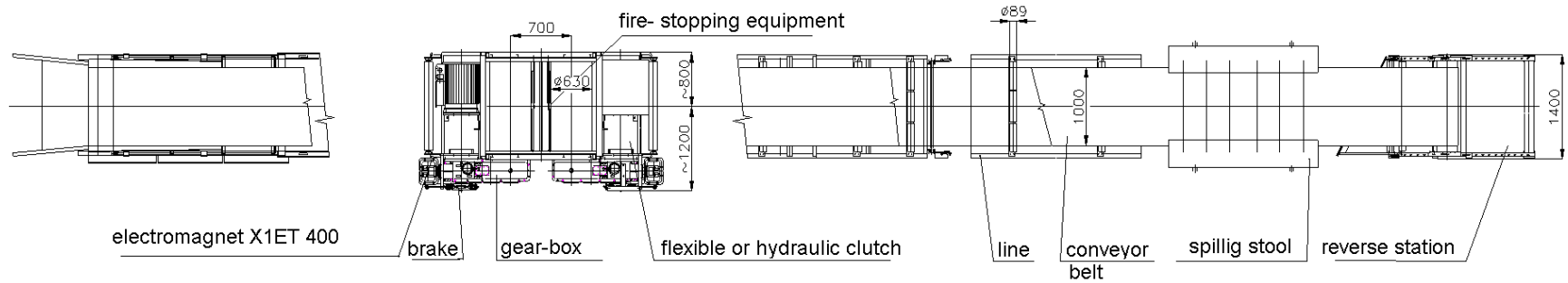
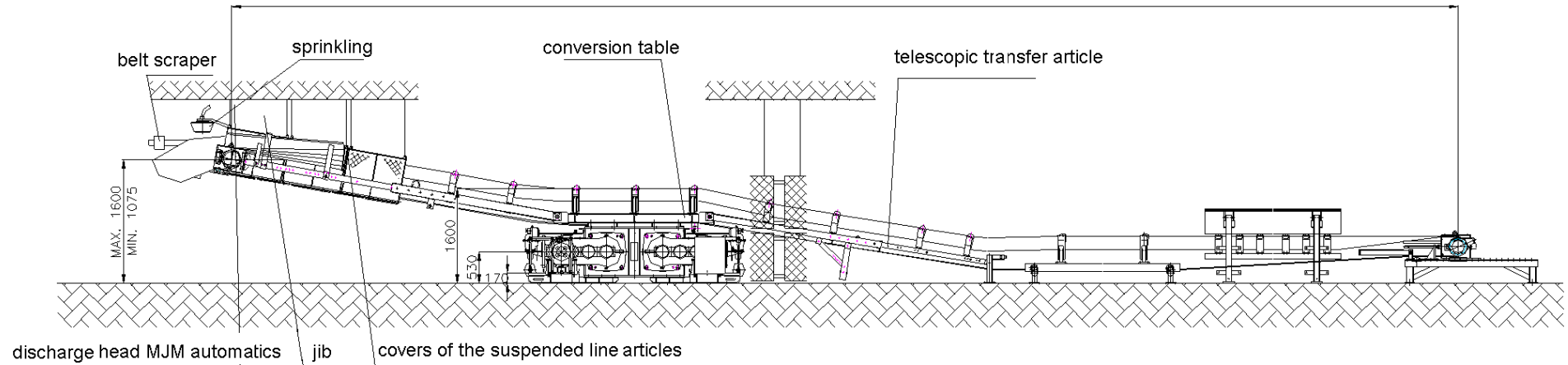


## Conveyor Type DP 1000

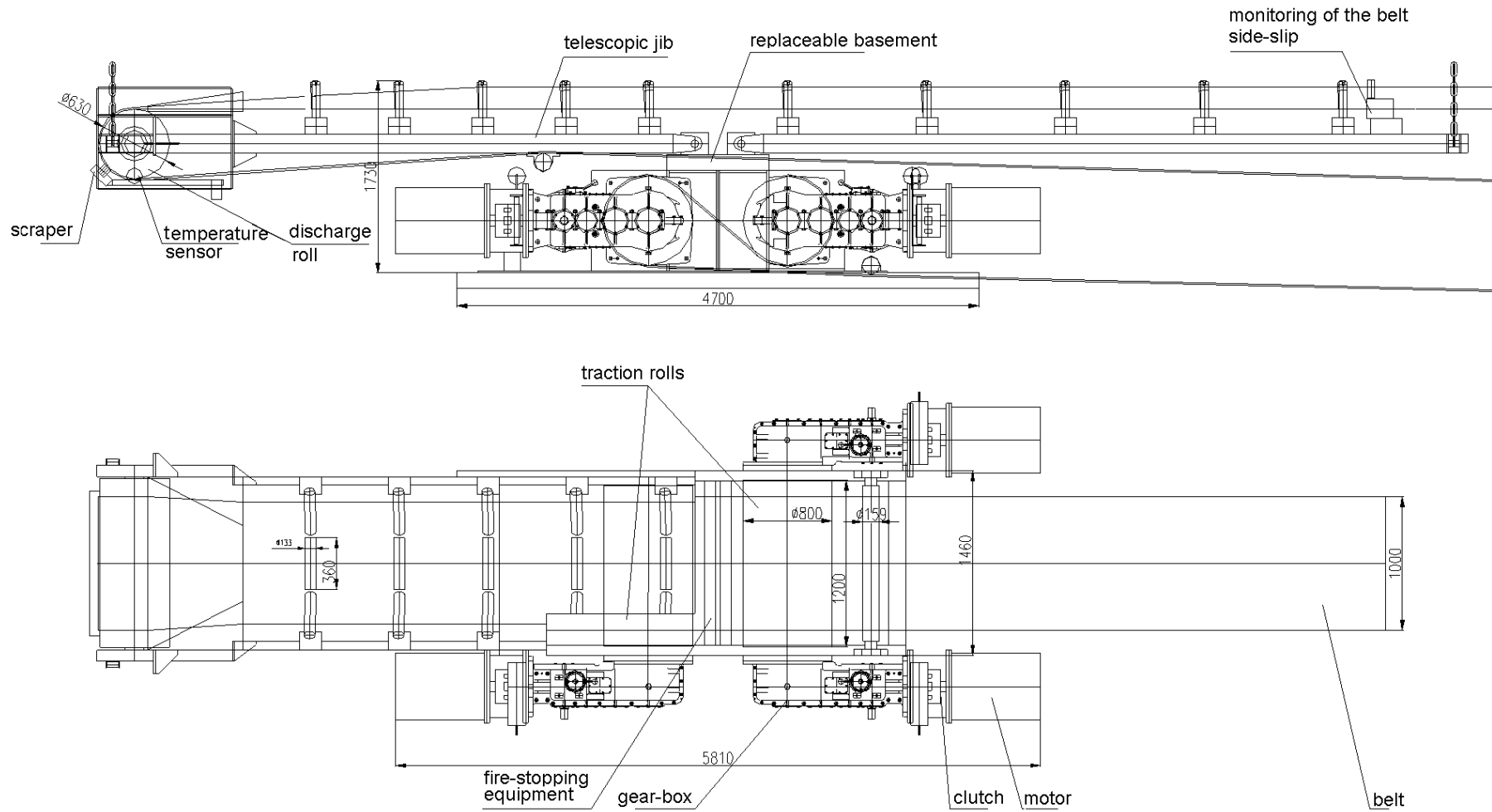
Conveyor Type	DP 1000 C 30	DP 1000 S 55 1	DP 1000 S 55	DP 1000 S 75	DP 1000 V 90
Max. transported volume	Up to 1050 t/hour for $\gamma = 1100 \text{ kg/m}^3$ and $v = 3,15 \text{ m/s}$				
Conveyor length (max.)	150 m	250 m	500 m	750 m	1500 m
Conveyor belt width	1000 mm				
Installed power	2x 30kW	1x 55kW	2x 55kW	2x 75kW	2x 90kW
Max. permitted installed power	2x 30kW	1x 55kW	2x 55kW	3x 75kW	3x 90kW
Speed gears number	2				
Belt speed	1,6 - 2,5 m/s	1,6 - 3,15 m/s			2 - 3,15 m/s
Gear-box type	RBV 30	PCE 55 SE	PCE 55 SE, EOPS 75 P		EOPS 75 K
Clutch type	Flexible			Flexible double	
Brake type	Shoe brake	Shoe electro-mechanical or electro-hydraulic			
Driving drums number (as standard)	2	1	2	2	2
Driving drums diameter	400 mm	630 mm			800 mm
Discharging drum diameter	315 mm	315 mm	500 mm	500 or 630 mm	630 mm
Reverse drum diameter	315 mm	315 mm	500 mm	500 or 630 mm	630 mm
Driven stretching station possibility	No			Yes	
Line	See the offer of the lines (standardly delivered lines are listed)				
Upper supports spacing	1150 mm or 1500 mm				1000 mm
Lower supports spacing	2300 mm or 3000 mm				3000 mm
Supporting elements length	2300 mm or 3000 mm				3000 mm
Rope utilization possibility	No	No	Yes		
Upper rollers diameter / length	89 x 360	89 x 360			108 x 360
Lower rollers diameter / length	89 x 530				108 x 530
Further possible rollers diameter	108 mm or 133 mm				133 mm
Conveyor permitted ascending (without auxiliary equipment)	+ 18°				
Conveyor permitted descending (without auxiliary equipment)	- 12°				-14°
Stretching device possibility	According to request and space available: counter-weight, electro-mechanical, pneumatic				

# BELT CONVEYOR DP 1000 S

CONVEYOR LENGTH (UP TO 300m without the stretching equipment,  
UP TO 500m with the stretching equipment)



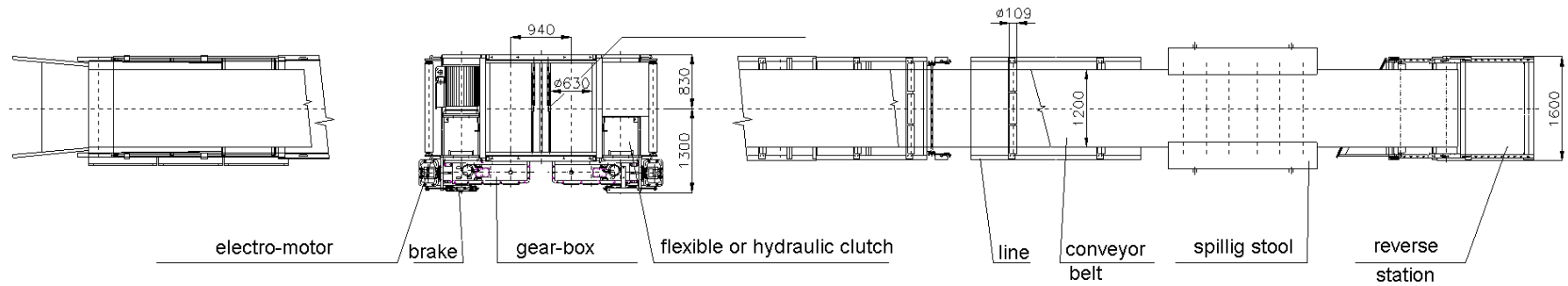
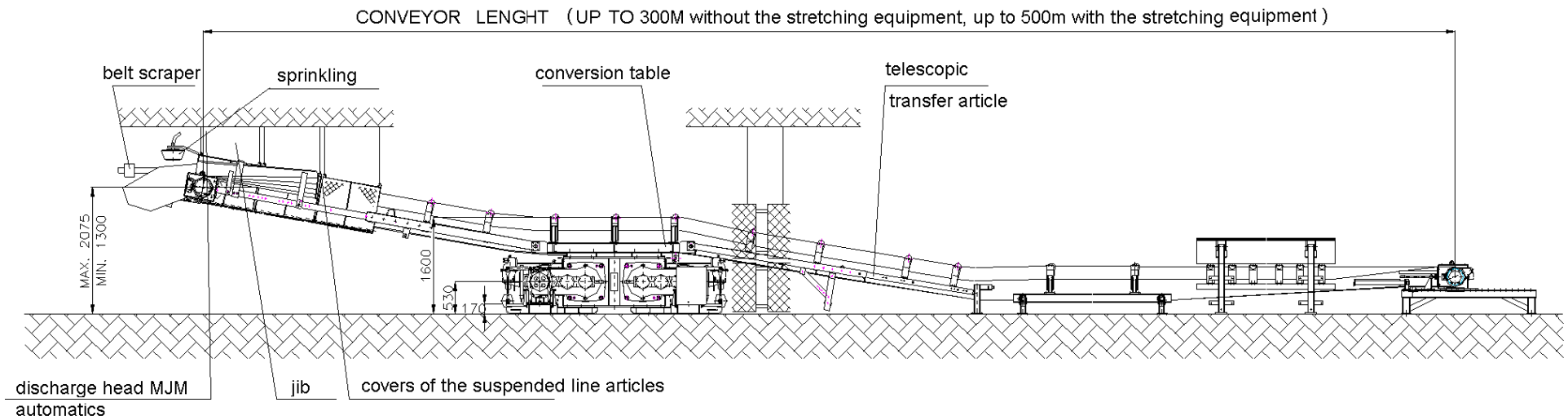
# BELT CONVEYOR DP 1000 V - 75 K



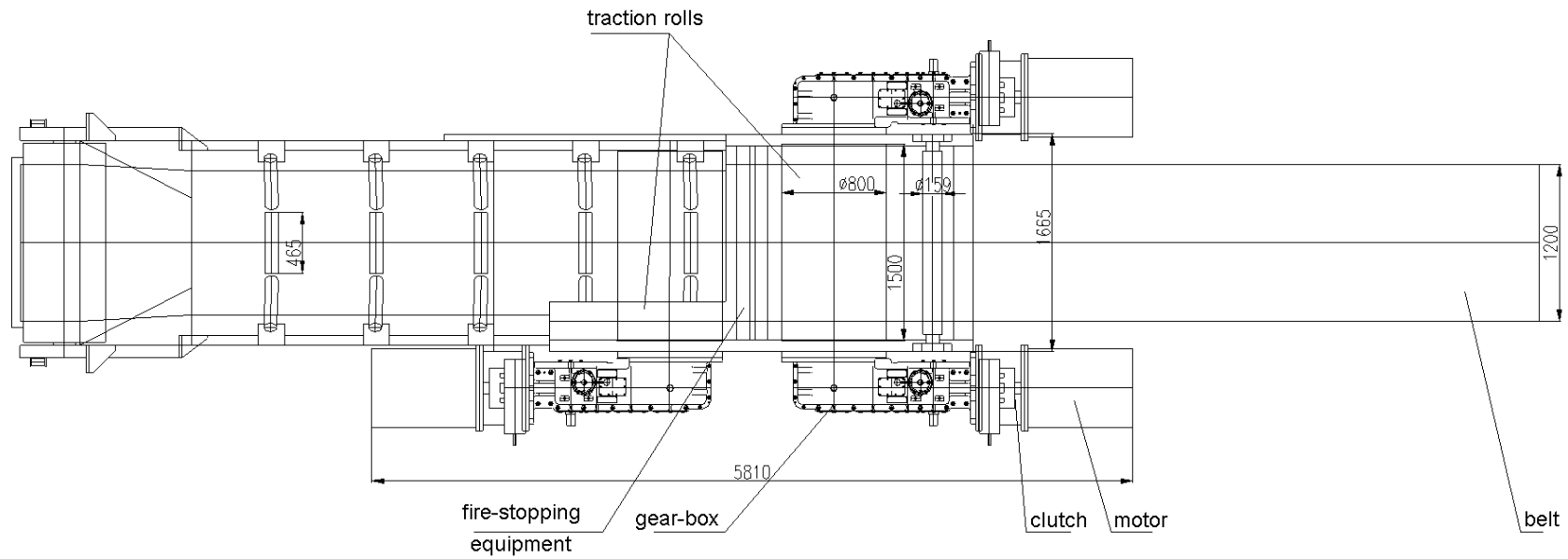
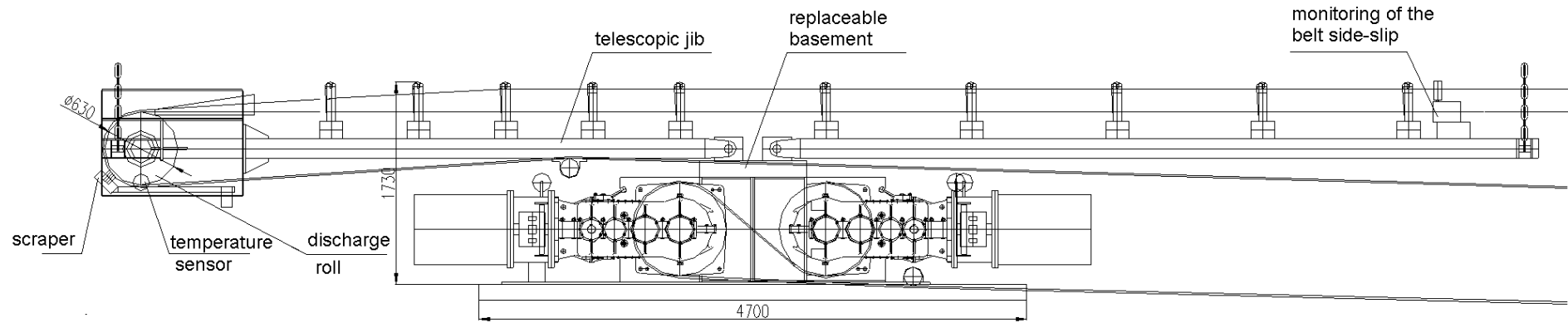
## Conveyor Type DP 1200

Conveyor Type	DP 1200 S 75 K	DP 1200 S 90 K	DP 1200 V 90 K
Max. transported volume (for coal)	Up to 1515 t/hour for v = 3,15 m/s		
Conveyor length (max.)	1000 m	1500 m	1500 m
Conveyor belt width	1200 mm		
Installed power	2x 75kW	2x 90kW	2x 90kW
Max. permitted installed power	3x 75kW	3x 90kW	3x 90kW
Speed gears number	2	2	2
Belt speed	1,6 m/s-3,15 m/s	2 m/s-3,15 m/s	1,6 m/s-3,15 m/s
Gear-box type	EOPS 75 K or PKO 75	EOPS 75 K	
Clutch type	Flexible double		
Brake type	Electro-mechanical or electro-hydraulic		
Driving drums number (as standard)	2		
Driving drums diameter	630 mm		800 mm
Discharging drum diameter	500 mm (or 630 mm)		630 mm
Reverse drum diameter	500 mm (or 630 mm)		630 mm
Driven stretching station possibility	Yes		
Line	See the offer of the lines (standardly delivered lines are listed)		
Upper supports spacing	1500 mm		
Lower supports spacing	3000 mm		
Supporting elements length	3000 mm		
Rope utilization possibility	Yes		
Upper rollers diameter / length	108 x 465		
Lower rollers diameter / length	108 x 700		
Further possible rollers diameter	133		
Conveyor permitted ascending (without auxiliary equipment)	+ 18°		
Conveyor permitted descending (without auxiliary equipment)	- 12°		
Stretching device possibility	According to request and space available: counter-weight, electro-mechanical, pneumatic		

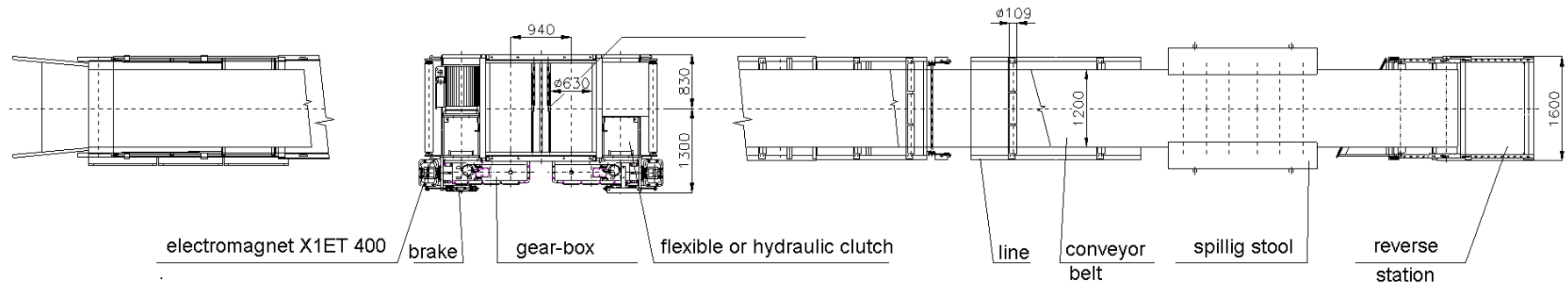
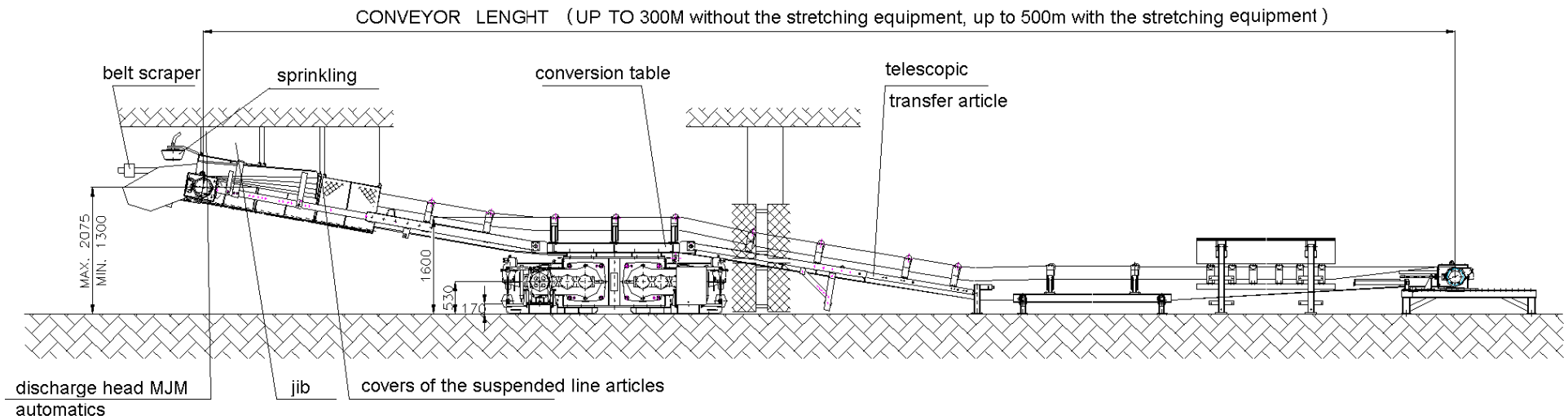
# BELT CONVEYOR DP 1200 S 75 K



# BELT CONVEYOR DP 1200 V - 75 K



# BELT CONVEYOR DP 1200 S 75



## Conveyor Type DP 1400

Conveyor Type	DP 1400 V 90 K
Max. transported volume (for coal)	2020 t/hour for v = 4 m/s
Conveyor length (max.)	1300 m
Conveyor belt width	1400 mm
Installed power	2x 90kW
Max. installed power	4x 90kW
Speed gears number	2
Belt speed	1,6 m/s – 4 m/s
Gear-box type	EOPS 75 K
Clutch type	Flexible double or hydraulic
Brake type	Electro-mechanical or electro-hydraulic
Driving drums number (as standard)	2
Driving drums diameter	800 mm
Discharging drum diameter	630 mm
Reverse drum diameter	630 mm
Driven stretching station possibility	Yes
Line	See the offer of the lines (standardly delivered lines are listed)
Upper supports spacing	1500 mm
Lower supports spacing	3000 mm
Supporting elements length	3000 mm
Rope utilization possibility	Yes
Upper rollers diameter / length	108 x 530
Lower rollers diameter / length	108 x 750
Further possible rollers diameter	133
Conveyor permitted ascending (without auxiliary equipment)	+ 18°
Conveyor permitted descending (without auxiliary equipment)	- 12°
Stretching device possibility	According to request and space available: counter-weight, electro-mechanical, pneumatic

# BELT CONVEYOR DP 1400 V - 75 K

