



PARTNERSHIP



RELIABILITY



EFFICIENCY



THEYSOHN PHILOSOPHY



Multiple Caterpillar Haul-off

The multiple caterpillar haul-off has been specially developed to haul-off pipes and it considerably influences the speed of the line. Multiple caterpillar haul-offs for dimensions from 6 - 800 mm OD can be equipped with 3, 4, 6 or 8 caterpillars depending on type of machine.

Caterpillar adjustment

The lower 2, 3 or 4 caterpillar tracks are electrically adjusted through lift gear spindle to fit the desired pipe dimension. The upper caterpillar(s) are adjusted through special pneumatic barrels. Continuous piston rod with linear guiding for sensible force regulation.

Drive

By use of A.C. servo drives (newest technology) it is possible - even with low speeds - to

- guarantee a constant torque for the whole control range
- achieve a substantial wider control range compared with direct-current motors
- achieve an absolute synchronism
- guarantee highest control accuracy, which is a prerequisite for the optimum use of wall thickness control units

Complete extrusion line

The RA multiple caterpillar haul-off is a component of a complete pipe extrusion line offered by Theysohn Extrusionstechnik consisting of

- CON/TTS/TTM twin-screw extruder
- RK pipe head
- DVK double-chamber/VK vacuum spray tank
- SB spray bath
- RAE belt-/RA multiple caterpillar haul-off
- TRS planetary saw
- Socket forming machine
- Tip table

Technical Data		110/3E	160/3E	250/3E	250/4E	400/4E	400/6E*
Pipe diameter	mm	6 - 114	23 - 168	30 - 267	48 - 267	90 - 400	40/90 - 400
Pad width of caterpillar	mm	10	37	37	37	37	37
Contacting length of caterpillar tracks	mm	1050	1450	1450	1450	1450	1450
Number of caterpillar tracks		3	3	3	4	4	6
Haul-off speed (the lower speed is applicable at field-attenuate operation)	m/min	0.1 - 18/32	0.1 - 14/25	0.1 - 10/18	0.1 - 9/17	0.1 - 6/10	0.1 - 6/10
Haul-off force (the haul-off force is applicable at field-attenuate operation)	N	6200/3500	8000/4500	12000/7000	16000/9000	16000/12000	27000
A.C.-servo drive	kW	3 x 0.9	3 x 0.9	3 x 0.9	4 x 0.9	4 x 0.9	6 x 0.9
Length	mm	2250	2800	2800	2800	2800	3300
Length incl. protective pipe	mm	3050	3800	3800	3800	3800	4300
Width	mm	1400	1450	1450	1550	1550	2100
Height	mm	1800	1800	1800	1800	1850	1950
Weight	kg	1000	1500	1650	2000	2200	2800

*) in diameter range 40/90 (63/90; 110/225) with 3 caterpillar

Technical Data		500/6E*	630/6E	630/8E**	800/6E*	800/8E**
Pipe diameter	mm	63/90 - 500	90 - 630	140/355 - 630	110/225 - 800	160/280 - 800
Pad width of caterpillar	mm	37	37	37	37	37
Contacting length of caterpillar tracks	mm	1450	1450	1450	1450	1450
Number of caterpillar tracks		6	6	8	6	8
Haul-off speed (the lower speed is applicable at field-attenuate operation)	m/min	0.05 - 7	0.05 - 6	0.05 - 6	0.05 - 4	0.05 - 4
Haul-off force (the haul-off force is applicable at field-attenuate operation)	N	27000	27000	45000	27000	45000
A.C.-servo drive	kW	6 x 0.9	6 x 0.8	8 x 0.8	6 x 0.9	8 x 0.9
Length	mm	3300	3300	3300	3300	3300
Length incl. protective pipe	mm	4300	4300	4300	4300	4300
Width	mm	2400	2400	2400	2400	2400
Height	mm	2200	2200	2200	2200	2200
Weight	kg	3300	3500	3700	4000	4100

*) in diameter range 40/90 (63/90) with 3 caterpillar

***) in diameter range 140/355 (160/280) with 4 caterpillars

Standard

- solid mechanic engineering and most modern electronic equipment guarantee trouble-free working and a long lifetime
- reversible speed control
- entry support roll
- caterpillar back pressure front/rear separate adjustable
- speed control display
- scale for adjustment of pipe dimension
- prepared for wall thickening
- control voltage 24 V
- main functions integrated in TEC-2TS control system

Options

- digital display of pipe dimension
- metering wheel with swivel arm
- length measuring instruments with pulse for saw cut
- 2-loop control for 8-caterpillar haul-offs to process smaller pipe dimensions with 3/4 caterpillars
- start-up support - rope winch
- control voltage 220 V
- cable remote control
- 2 speed ranges - rearrangeable

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