

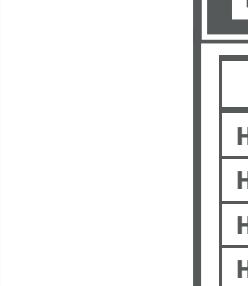
dynasafe™ system selection guide

B Mechanical force and load monitoring systems

Basic solution for compliance with Directive 2006/42/EC.

1 SELECTING A MECHANICAL SENSOR

MODEL	VERSION	LOCATION	CAPACITY PER FALL	WIRE ROPE DIAMETER
HF 31/1 ①	A2	On cable	200 to 3 200 daN	5 to 16 mm
HF 32/2 ①	A or A2 or B	On cable	300 to 6 000 daN	17 to 26 mm
HF 32/3 ①	A or A2 or B	On cable	1000 to 12 000 daN	24 to 36 mm
HF 05/X* ②	A and B	Dead end	50 to 3 200 daN	-
HF 05/Z* ②	B	Dead end	10 to 12 000 daN	-



X*: from 1 to 4 - Z*: 1 to 7

2 SELECTING A CONNECTION: WIRED ONLY

3 SELECTING FUNCTIONALITIES

FUNCTIONALITY	MODEL	VERSION	ADDITIONAL EQUIPMENT
Safety threshold management	All	A and A2	-
Threshold and dynamic effect management	All	B	HF 85 monitor ③

Version A: 1 interrupt signal, up to 4A at 220 Vac, for direct control

Version A2: 2 interrupt signals, up to 4A at 220 Vac, for direct control

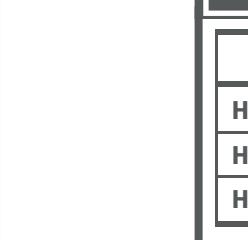
Version B: 1 interrupt signal, 25 mA at 12 Vdc, for indirect control and management of dynamic strain via HF 85

C Electronic force and load monitoring systems

Electronic management assistance solution. For compliance with Directive 2006/42/EC.

1 SELECTING A STRAIN GAUGE SENSOR

MODEL	LOCATION	CAPACITY PER FALL	WIRE ROPE DIAMETER
HF 35 ④	On cable	50 to 12 000 daN	5 to 36 mm
HF 10 ⑤	Dead end	50 to 12 000 daN	-
HF 50 ⑥	Load pin	-	-



Any strain gauge sensor*. Standard or specific, all capacities. ⑦

* Standard output: mV/V. Optional output: 0-10 V, 4-20 mA.

2 SELECTING A CONNECTION

TYPE OF CONNECTION	ADDITIONAL EQUIPMENT
Wired link	Module LLXt RS ⑧ + Adjustment software ⑯
Wireless link	LLXt WL module ⑨ + Adjustment software ⑯

Input: mV/V.

3 SELECTING FUNCTIONALITIES

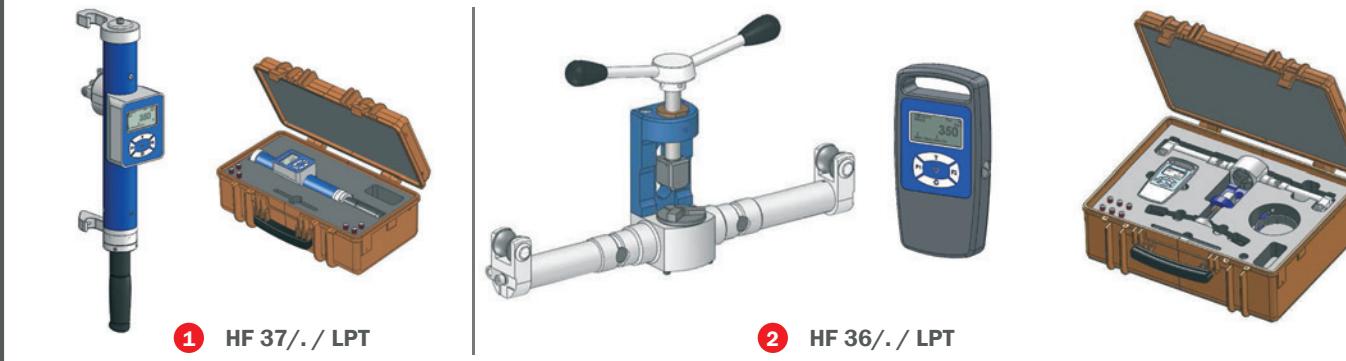
FUNCTIONALITY	ADDITIONAL EQUIPMENT
Threshold (5) and dynamic effect management	DMU WL (Wireless dynasafe™ Monitoring Unit) ⑩
Overload + Cable slack + Summation	DMU RS (RS 485 dynasafe™ Monitoring Unit) ⑪
High visibility wired remote LED display	AL 63 or AL 128 Display ⑫
Remote LCD display	Remote LLX2 display ⑬
Data acquisition on PC (1-8 sensors)	DMU + dynafor™ Connection software ⑭
IT integration (1-32 sensors)	DMU + Communication Protocol ⑮

A wired connection is always preferred for applications where safety is critical.

D Measurement of tensile strength of guide ropes

Easy solution without disassembly of the taut cable.

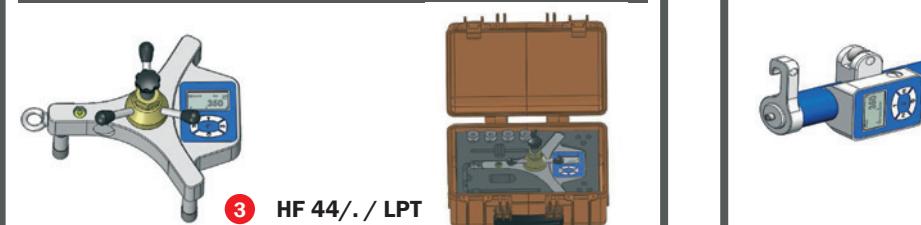
MODEL	TENSILE STRENGTH RANGE	WIRE ROPE DIAMETER	CABLE TYPE
HF 37/1/LPT ①	1 kN to 15 kN	5 to 13 mm	Single strand steel
HF 37/2/LPT ①	2 kN to 30 kN	8 to 18 mm	Multi-strand steel
HF 36/1/LPT ②	2 kN to 50 kN	5 to 13 mm	Synthetic
HF 36/2/LPT ②	4 kN to 200 kN	9 to 28 mm	Special
HF 36/S/LPT ②	> 200 kN	> 28 mm	



dynaplug

E Measurement of resistance of anchor points

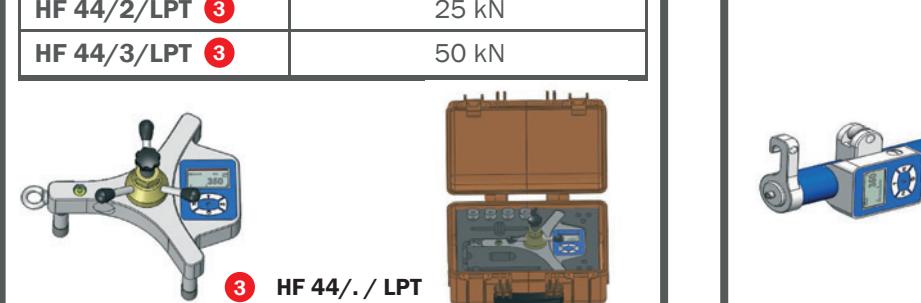
MODEL	STRENGTH RANGE
HF 44/1/LPT ③	15 kN
HF 44/2/LPT ③	25 kN
HF 44/3/LPT ③	50 kN



③ HF 44/1/LPT

F Measurement of tensile strength of lifeline wire ropes

MODEL	STRENGTH	Ø OF WIRE ROPE
HF 45/1/LPT ④	600 daN	8 to 12 mm



④ HF 45/1/LPT

dynaline

Easy solution without disassembly of the taut cable.

MODEL	TENSILE STRENGTH RANGE	WIRE ROPE DIAMETER	CABLE TYPE
HF 37/1/LPT ①	1 kN to 15 kN	5 to 13 mm	Single strand steel
HF 37/2/LPT ①	2 kN to 30 kN	8 to 18 mm	Multi-strand steel
HF 36/1/LPT ②	2 kN to 50 kN	5 to 13 mm	Synthetic
HF 36/2/LPT ②	4 kN to 200 kN	9 to 28 mm	Special
HF 36/S/LPT ②	> 200 kN	> 28 mm	



MEASURE AND CONTROL - SELECTION GUIDE

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Detailed technical documentation: www.tractel.com



Tractel®

dynafor™ dynamometer selection guide

A Measure and control of forces and loads in Industry

Solution for multiple applications. Adjustment certificate. Optional ISO 376.

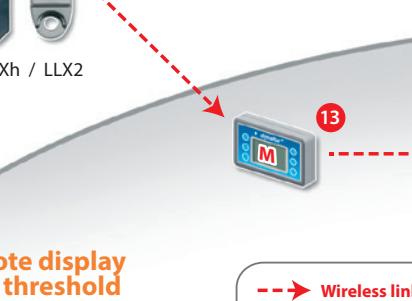
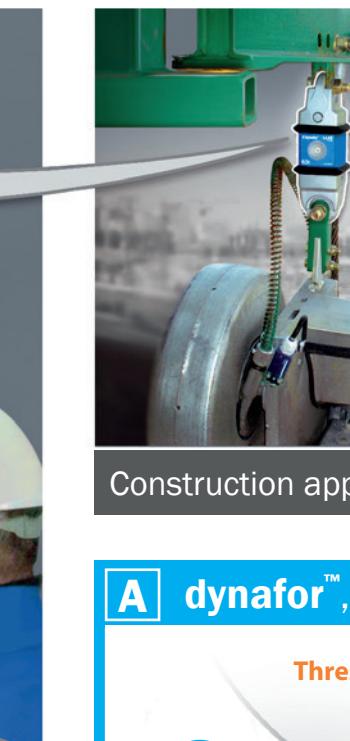
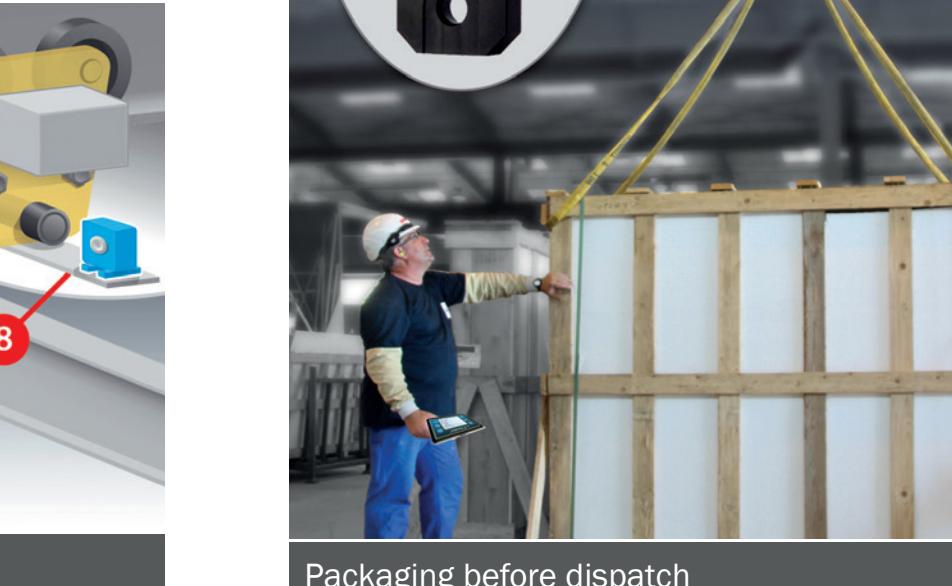
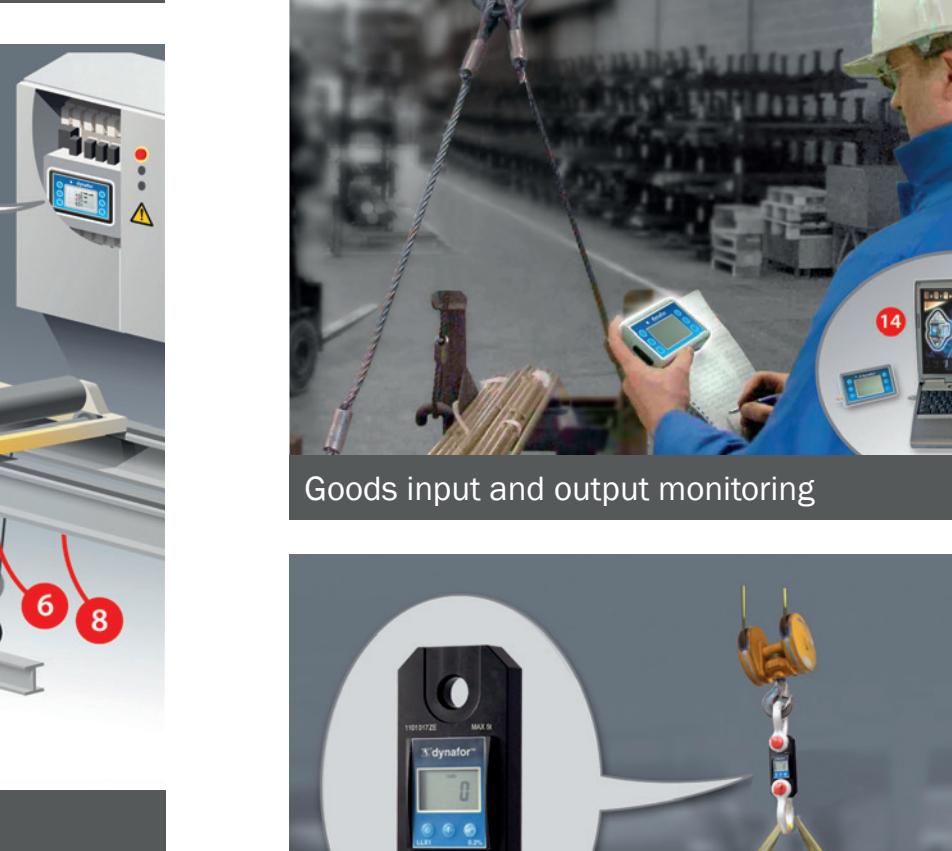
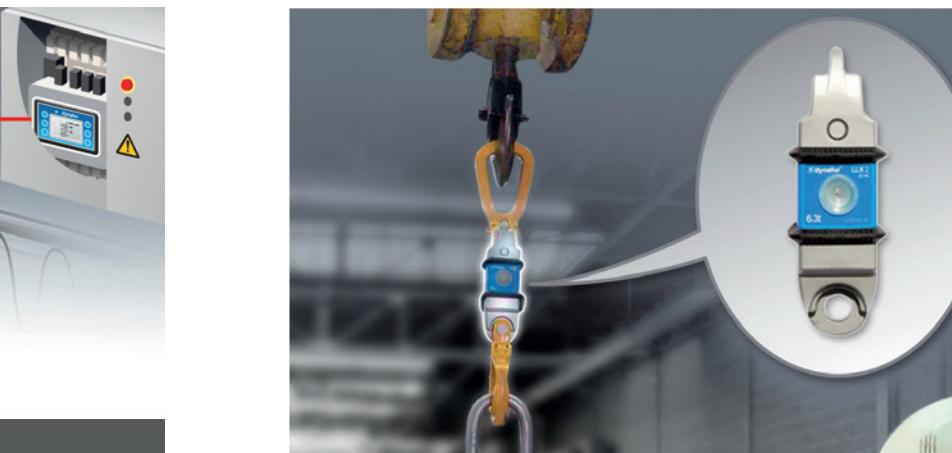
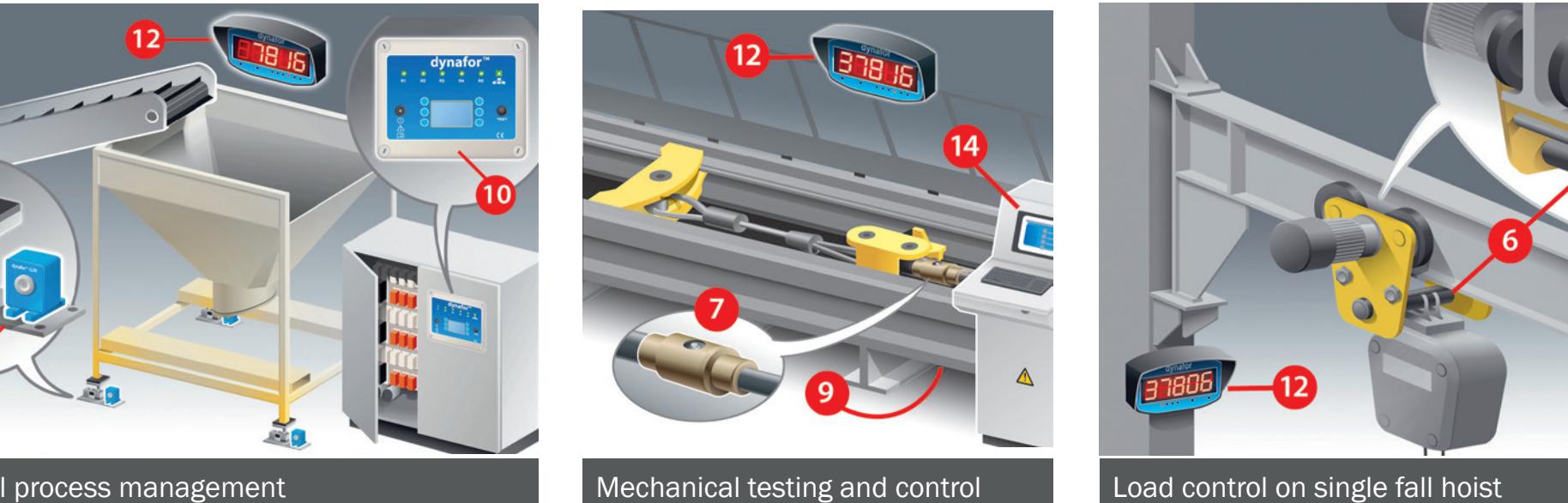
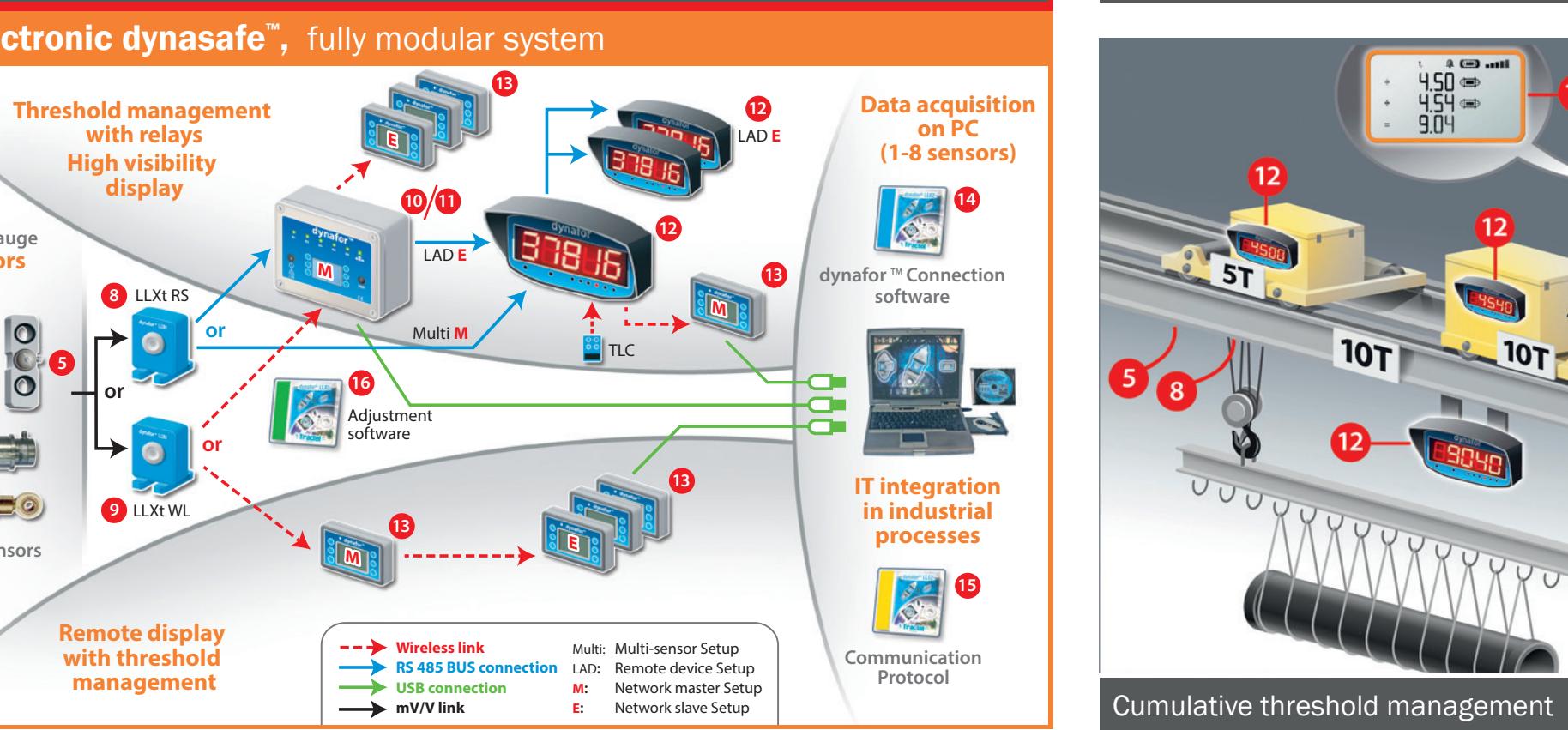
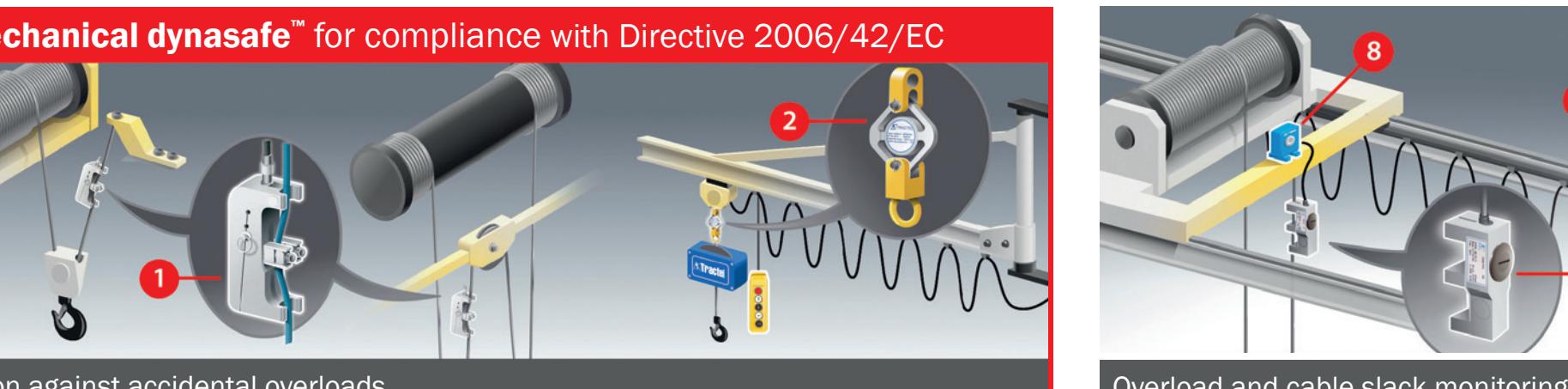
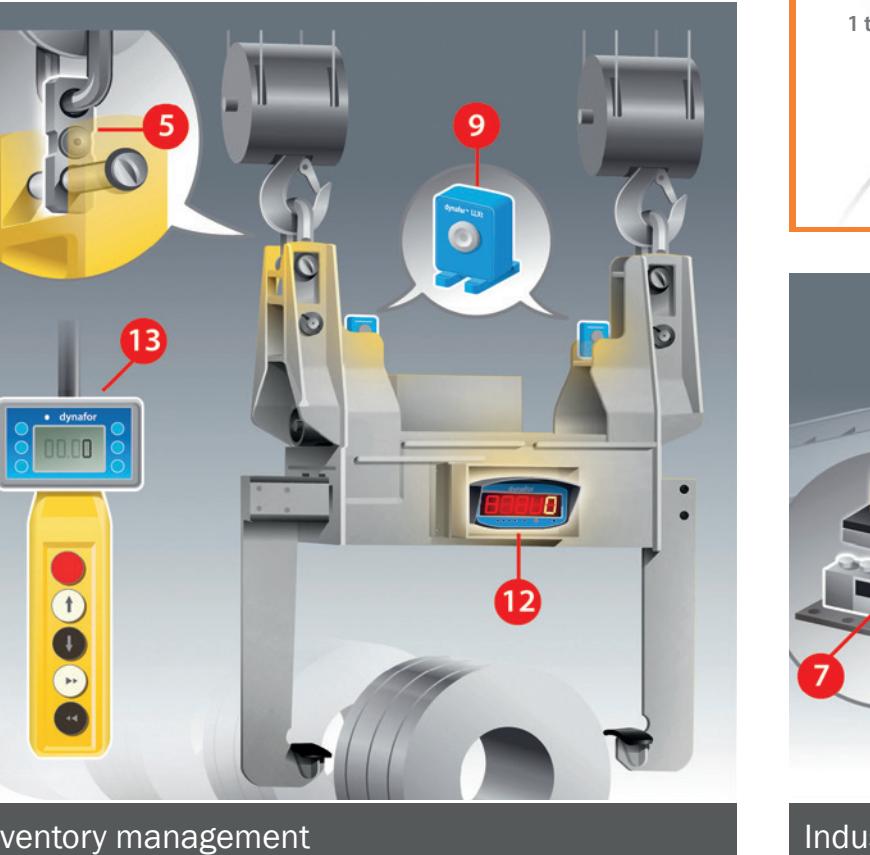
SELECTION	1	2	3	4	5
MODEL	CAPACITY	PRECISION	REMOTE DISPLAY	PROTECTION RATING	FUNCTIONALITIES

handifor	20 / 50 / 100 200 kg	0.5 %	No	IP 40	Level 1 ■ Tare ■ Units ■ Peak load ■ Automatic Stop
LLZ2	1/ 3.2 / 6.3 12.5 / 20 t	0.3 %	No	IP 65	
LLX1	0.5 / 1 / 2 3.2 / 5 / 6.3 12.5 / 20 t	0.2 %	Yes, optional	IP 65	Level 2 ■ Level 1 functionalities + ■ Settable automatic stop ■ Filtering settable dynamic effects
LLX2	0.5 / 1 / 2 3.2 / 5 / 6.3 12.5 / 20 t	0.1 %	Yes	IP 66 IP 67 optional	Level 3 ■ Level 2 functionalities + ■ Functionalities listed below:
LLXh	15 / 25 / 50 100 / 250 t	0.2 %	Yes	IP 66 IP 67 optional	

LEVEL 3 SPECIFIC FUNCTIONALITIES	ADDITIONAL EQUIPMENT
Backlight screen	-
Locking of setting menu	-
Multiple and settable alarms	-
Associations of multiple sensors/displays	Remote LLX2 display
Threshold (5) and dynamic effect management	DMU WL (Wireless Dynasafe™ Monitoring Unit) ⑩
Overload + Cable slack + Summation	DMU WL (Wireless Dynasafe™ Monitoring Unit) ⑩
High visibility wired remote LED display	AL 63 or AL128 Display ⑫
Data acquisition on PC (1-8 sensors)	DMU WL + AL63 or AL128 display units ⑫
IT integration (1-32 sensors)	dynafor™ Connection software ⑭

LEVEL 3 SPECIFIC FUNCTIONALITIES	ADDITIONAL EQUIPMENT

dynasafe™ force and load monitoring systems



dynafor™ dynamometer selection guide

