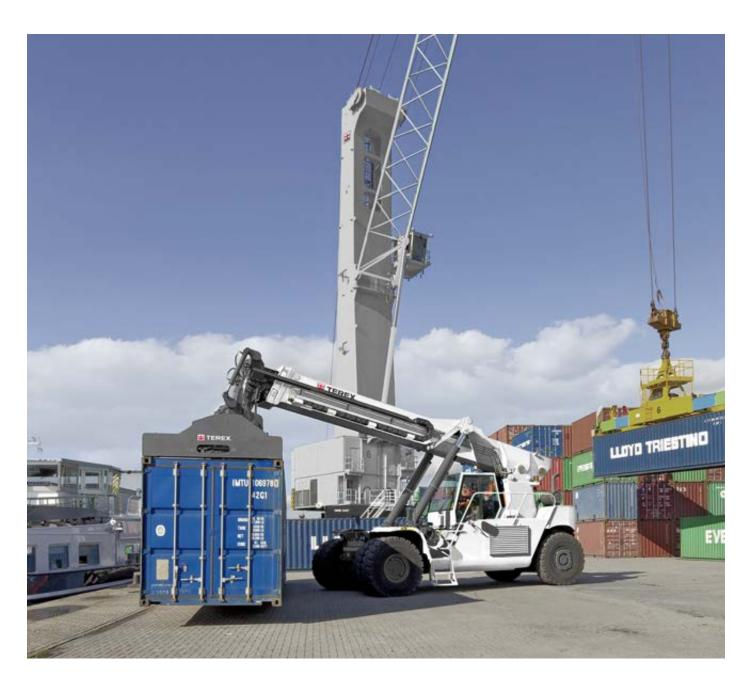




## **REACH STACKERS**

## **ROBUST, FLEXIBLE AND POWERFUL**



## WORKS FOR YOU.

## **REACHING HIGH**

### **TEREX® REACH STACKERS**

Terex Port Solutions (TPS) offers a comprehensive portfolio of logistics solutions and state-of-the-art cargo handling equipment including lift trucks of various types. Among these, Terex reach stackers stand for excellent performance and reliability combined with innovative design.

They offer versatile application possibilities for the handling of empty or full containers within demanding intermodal handling systems including harbour terminals, rail terminals, container depots and other logistical systems.

### **Professional high-capacity handling**

With durable Terex spreader systems, which are designed and manufactured inhouse, 20' to 40' containers can be handled and stacked to a height of six 9'6" high-cube containers – a stacking ability that can be found nowhere else in the market. Furthermore, our reach stackers can be equipped with a variety of lifting gear for the flexible handling of general and heavy project cargo.

Terex reach stackers fulfill the requirements of even the most difficult handling tasks, including high load capacities of up to 45 t under spreader and high working speeds while being easy to operate and safe.

### The range of Terex reach stackers

| Types | Models       |          | Wheelbases<br>[mm]    |                       | Maximum container<br>stacking heights |                       |                       | Main applications     |                       |                       |
|-------|--------------|----------|-----------------------|-----------------------|---------------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
|       |              | 5,150    | 6,000                 | 6,500                 | 7,000                                 | 5 x 9'6"              | 6 x 8'6"              | 6 x 9'6"              | Full<br>container     | Empty container       |
|       | TFC 45       |          | <ul> <li>✓</li> </ul> |                       |                                       | <ul> <li>✓</li> </ul> |                       |                       | <ul> <li>✓</li> </ul> |                       |
|       | TFC 45 R     |          | <ul> <li>✓</li> </ul> |                       |                                       | <ul> <li>✓</li> </ul> |                       |                       | <b>v</b>              |                       |
|       | TFC 45 M     |          |                       | <ul> <li>✓</li> </ul> |                                       | <b>V</b>              |                       |                       | <ul> <li>✓</li> </ul> |                       |
|       | TFC 45 MR    |          |                       | <b>v</b>              |                                       | <b>v</b>              |                       |                       | <b>v</b>              |                       |
|       | TFC 46 M DRY |          |                       | <ul> <li>✓</li> </ul> |                                       |                       | <ul> <li>✓</li> </ul> |                       | <ul> <li>✓</li> </ul> |                       |
|       | TFC 46 M     |          |                       | <ul> <li>✓</li> </ul> |                                       |                       |                       | <b>v</b>              | <b>V</b>              |                       |
| TFC   | TFC 46 MS    |          |                       | <ul> <li>✓</li> </ul> |                                       |                       |                       | <ul> <li>✓</li> </ul> | <ul> <li>✓</li> </ul> |                       |
|       | TFC 46 MX    |          |                       | <ul> <li>✓</li> </ul> |                                       |                       |                       | <ul> <li>✓</li> </ul> | <b>v</b>              |                       |
|       | TFC 46 MSX   |          |                       | <ul> <li>✓</li> </ul> |                                       |                       |                       | <ul> <li>✓</li> </ul> | <ul> <li>✓</li> </ul> |                       |
|       | TFC 46 LS    |          |                       |                       | <b>v</b>                              |                       | <ul> <li>✓</li> </ul> |                       | <b>V</b>              |                       |
|       | TFC 46 LX    |          |                       |                       | <ul> <li>✓</li> </ul>                 |                       | <ul> <li>✓</li> </ul> |                       | <ul> <li>✓</li> </ul> |                       |
|       | TFC 46 LSR   |          |                       |                       | <b>v</b>                              |                       | ~                     |                       | <b>v</b>              |                       |
|       | TFC 46 LSX   |          |                       |                       | <ul> <li>✓</li> </ul>                 |                       | <ul> <li>✓</li> </ul> |                       | <ul> <li>✓</li> </ul> |                       |
| CS    | CS 7.5 S6    | <b>v</b> |                       |                       |                                       |                       | <ul> <li>✓</li> </ul> |                       |                       | <ul> <li>✓</li> </ul> |
| 63    | CS 45 KM     |          | <ul> <li>✓</li> </ul> |                       |                                       | <b>V</b>              |                       |                       | <ul> <li>✓</li> </ul> |                       |

### Easy, reliable and efficient operation

- Excellent cargo handling rates thanks to high-performance and high lifting capacities, traveling and lifting/lowering speeds
- Easy handling and good maneuverability
- Very easy operation thanks to ergonomic design, innovative control systems and good operator visibility
- Long service life and reliability due to robust design and prime components
- Cost-effective operation due to modern, environmentally friendly drive technology and low maintenance expenses



## **HIGH-CAPACITY STACKING**

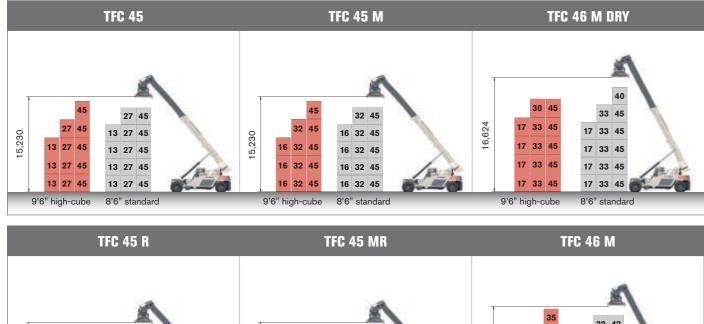
## LOAD CHARTS FOR THE WHOLE RANGE

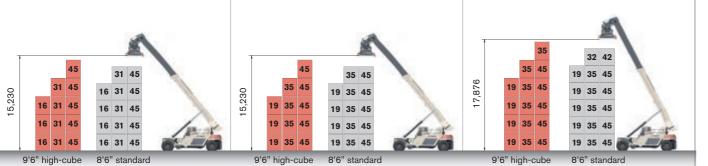
Terex® reach stackers are not only capable of stacking up to six high-cube containers (9'6") in the first row. Due to their compact design and rigid construction they also allow for high capacity stacking in the second and even the third container row.

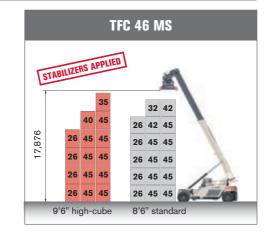
The load charts lead you guickly to the Terex reach stacker type and model that suits your stacking capacity needs for standard (8'6") and high-cube (9'6") containers.

### TFC type

TPS provides thirteen TFC models that cover all requirements for professional container handling and stacking. They offer various lifting capacity ranges and include models with stabilizers (suffix S) to increase the lifting capacities in the 2nd and 3rd container row.

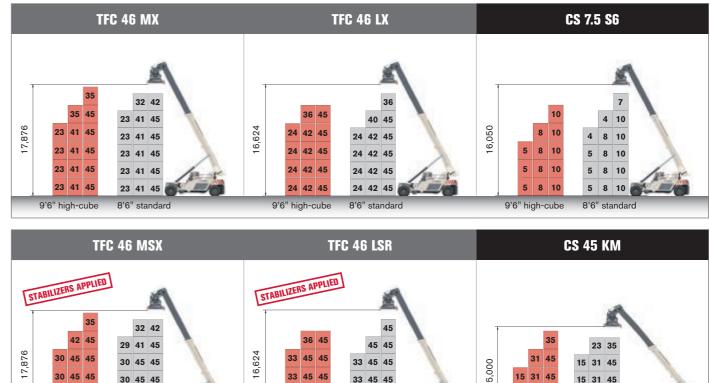


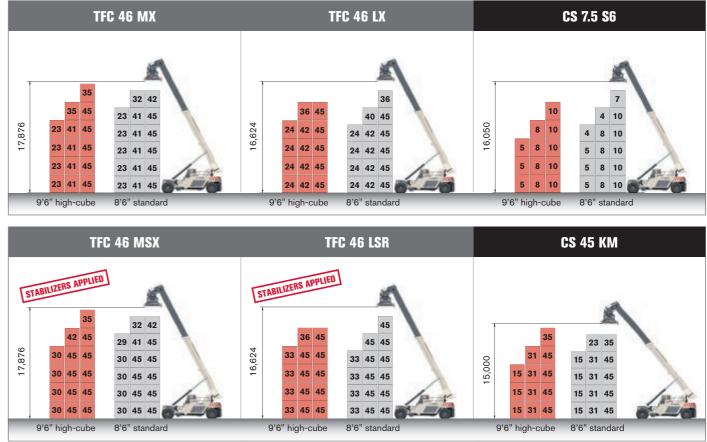


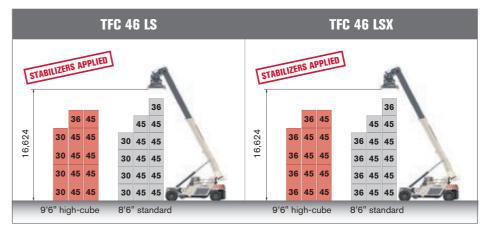


### **EXAMPLE PRODUCT DESIGNATION TFC TYPE**









### CS type

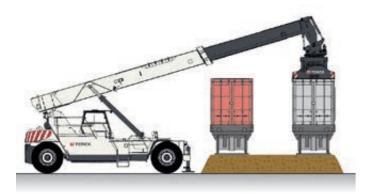
TPS offers two CS reach stackers: the CS 7.5 S6 is especially designed for empty container handling and the CS 45 KM is specifically designed for the regional requirements and regulations of the Asian market.

## **HIGH-OUTREACH HANDLING**

### **INTERMODAL OPERATION AT TRUCKS AND COACHES**

All Terex<sup>®</sup> reach stackers feature excellent capabilities for intermodal handling in either coach or truck operation.

In addition, the automatic sliding cab, standard on TFC 46 L models, provides an even better view of the working area.





**EFFICIENT DRIVES** 

## **TECHNICAL SPECIFICATIONS FOR ENGINES, TRANSMISSIONS AND MORE**

Terex reach stackers offer excellent value with its modern drive train, which includes engines with low fuel consumption and low exhaust emissions combined with powerful hydraulics and first-class axle components.

Below is a list of engines and transmissions available for Terex reach stackers - more details and engine options are available upon request.

#### **Recommended models for intermodal handling**

| Models /                 | TFC 45            |                   | TFC 45 R          |                   | TFC 4             | 6 MSX             | TFC 46 LSX        |                   |
|--------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Spreaders                | Top pick          | Piggyback         |
|                          | 45.0 t @ 2,460 mm | 45.0 t @ 2,000 mm | 45.0 t @ 2,460 mm | 45.0 t @ 2,000 mm | 45.0 t @ 4,500 mm | 45.0 t @ 3,860 mm | 45.0 t @ 4,500 mm | 45.0 t @ 3,860 mm |
| Capacity at<br>outreach* | 13.0 t @ 6,400 mm | 8.0 t @ 6,400 mm  | 16.0 t @ 6,400 mm | 10.0 t @ 6,400 mm | 31.0 t @ 6,400 mm | 27.0 t @ 6,400 mm | 36.0 t @ 6,400 mm | 31.0 t @ 6,400 mm |
| outreach                 | 9.0 t @ 7,500 mm  | 5.0 t @ 7,500 mm  | 12.5 t @ 7,500 mm | 7.0 t @ 7,500 mm  | 25.0 t @ 7,500 mm | 21.0 t @ 7,500 mm | 29.0 t @ 7,500 mm | 26.0 t @ 7,500 mm |

\* Measured from front tires or stabilizer, if applicable



| Models    | Standard engines  | Models    | Star   |
|-----------|---|-----------|--|
| TFC types | Scania DC9 Tier 4i (Stage IIIB)<br>257 kW @ 2,100 rpm<br>1,790 Nm @ 1,200 rpm   | CS 7.5 S6 | <b>Cummins QS</b><br>194 k <sup>1</sup><br>990 N |
|           | Cummins QSM11 Tier 3 (Stage IIIA)<br>239 kW @ 1,800 rpm<br>1,478 Nm @ 1,500 rpm |           | <b>Cummins QS</b><br>183 kV<br>1,162 M           |
|           | Standard transmission   |           | Volvo TAD87                                      |
|           | Dana TE 27 418<br>Speeds, forward / reverse                                     |           | 185 k<br>1,150 l                                 |
|           | 4 / 4   |           | Volvo TAD75                                      |
|           |   |           | 181 k\<br>1,050 l                                |
|           |   |           | Standa   |
|           |   |           | l<br>Speeds,                                     |
|           |   |           |  |

| Models                     |       | TOLuce                                      | CS                    |                       |  |  |  |  |
|----------------------------|-------|---|-----------------------|-----------------------|--|--|--|--|
|                            |       | TFC types                                   | 7.5 S6                | 45 KM                 |  |  |  |  |
| Driving axles              |       |   |                       |                       |  |  |  |  |
| Make                       |       | Kessler D102                                | Kessler D91           | Kessler D102          |  |  |  |  |
| Туре                       |       |   | 2-stage hub reduction |                       |  |  |  |  |
| Reduction                  |       | 22.6 or 25.4                                | 19.8                  | 30.2                  |  |  |  |  |
| Braking system             |       | Maintenance free wet disc brakes            |                       |                       |  |  |  |  |
| Hydraulic systems          |       |   |                       |                       |  |  |  |  |
| Main system                |       | Load sensing control                        | Load sensing control  | Load sensing control  |  |  |  |  |
| Main pump                  |       | Variable displacement<br>double piston pump | Gear pump             | Two double gear pumps |  |  |  |  |
| Max. working pressure      | [bar] | 320   | 230                   | 250                   |  |  |  |  |
| Tank capacities            |       |   |                       |                       |  |  |  |  |
| Hydraulic oil              | [1]   | 750   | 520                   | 850                   |  |  |  |  |
| Fuel                       | [1]   | 700   | 330                   | 580                   |  |  |  |  |
| Diesel Exhaust Fluid (DEF) | [1]   | 38  | 19-25*                | n/a                   |  |  |  |  |

Depending on engine type





#### dard engines

SB6.7 Tier 4f (Stage IV) kW @ 2,200 rpm Nm @ 1,500 rpm

SC8.3 Tier 3 (Stage IIIA) kW @ 2,200 rpm Nm @ 1,500 rpm

871VE Tier 4f (Stage IV) kW @ 2,200 rpm Nm @ 1,500 rpm

50VE Tier 3 (Stage IIIA) W @ 2,300 rpm Nm @ 1,500 rpm

#### rd tra

Dana TE 17

s, forward / reverse 3/3

| Models   | Standard engines  |
|----------|---|
| CS 45 KM | Cummins QSM11 Tier 3 (Stage IIIA)<br>250 kW @ 2,100 rpm<br>1,674 Nm @ 1,400 rpm |
|          | Standard transmission   |
|          | Dana 15.5 HR<br>Speeds, forward / reverse<br>4 / 4                              |

All standard engines equipped with water cooling system.

All standard transmissions equipped with hydraulic torque converter and automatic powershift control.

## HIGH LOADS, HIGH SPEEDS

## **TECHNICAL SPECIFICATIONS FOR CAPACITIES, SPEEDS, WEIGHTS AND MORE**

Terex<sup>®</sup> reach stackers offer high handling performance and reduced operating costs thanks to modern design and components. The technical specifications provide detailed information about stacking capacities, speeds, weights and other technical data.

|   |              |                    | TFC          | TFC 46       |              |              |              |  |
|---|--------------|--------------------|--------------|--------------|--------------|--------------|--------------|--|
| Models  |              | h/hc*              | R h/hc*      | м            | MR           | M DRY        | м            |  |
| Capacities  |              |                    |              |              |              |              |              |  |
| With front stabilizers (if yes, stacking are with stabilizer applied)       | abilities    |                    |              |              |              |              |              |  |
| Maximum stacking height, 1 <sup>st</sup> / 2 <sup>nd</sup> / 3 <sup>n</sup> | d row        |                    |              |              |              |              |              |  |
| - 8'6" standard container   |              | 5 /                | 5/4          | 5 /          | 5 / 4        | 6 / 5 / 4    | 6/6/5        |  |
| – 9'6" high-cube container  |              | 5 / -              | 4/3          | 5 /          | 4/3          | 5/5/4        | 6 / 5 / 4    |  |
| Maximum capacity, 1 <sup>st</sup> / 2 <sup>nd</sup> / 3 <sup>rd</sup> row   |              |                    |              |              |              |              |              |  |
| - 8'6" and 9'6" container   | [t]          | 45 / 27 / 13       | 45 / 31 / 16 | 45 / 32 / 16 | 45 / 35 / 19 | 45 / 33 / 17 | 45 / 35 / 19 |  |
| Maximum speeds  |              |                    |              |              |              |              |              |  |
| Lifting   |              |                    |              |              |              |              |              |  |
| – laden   | [m/s]        | h: 0.25 /          | hc: 0.26     | 0.           | 25           | 0.3          | 31           |  |
| – unladen   | [m/s]        | h: 0.34 /          | hc: 0.40     | 0.           | 40           | 0.4          | 48           |  |
| Lowering  |              |                    |              |              |              |              |              |  |
| – laden   | [m/s]        | 0.                 | 50           | 0.           | 0.50         |              | 0.60         |  |
| – unladen   | [m/s]        | 0.                 | 55           | 0.55         |              | 0.55         |              |  |
| Traveling   |              |                    |              |              |              |              |              |  |
| – laden   | [km/h]       | 2                  | !5           | 25           |              | 25           |              |  |
| – unladen   | [km/h]       | 2                  | 25           | 2            | 25           | 25           |              |  |
| Weights   |              |                    |              |              |              |              |              |  |
| Maxium static axle load, front / rear                                       |              |                    |              |              |              |              |              |  |
| $-$ laden (boom $\alpha = 45^{\circ}$ )                                     | [t]          | 86.7 / 26.6        | 86.5 / 30.1  | 83.6 / 30.0  | 83.5 / 33.5  | 84.2 / 30.8  | 86.2 / 32.5  |  |
| – unladen (boom $\alpha = 25^{\circ}$ )                                     | [t]          | 36.0 / 32.3        | 35.8 / 35.8  | 34.3 / 34.3  | 34.2 / 37.8  | 33.9 / 36.1  | 37.2 / 36.5  |  |
| Dead weight (unladen, with standard top pick spreader)                      | [t]          | 68.3               | 71.6         | 68.6         | 72.0         | 70.0         | 73.7         |  |
| Wheels and tires  |              |                    |              |              |              |              |              |  |
| Tire size   |              | 18.0               | 0-25         | 18.0         | 0-25         | 18.00-25     |              |  |
| Rim size  |              | 13.0               | 0-25         | 13.0         | 0-25         | 13.0         | 0-25         |  |
| No. of wheels, front (driven) / rear  |              | 4                  | / 2          | 4            | / 2          | 4            | / 2          |  |
| Additional data   |              |                    |              |              |              |              |              |  |
| Drawbar pull with standard engines  |              |                    |              |              |              |              |              |  |
| – Tier 4i (Stage IIIB) / Tier 4f (Stage IV)                                 | [t]          | 30                 | 0.6          | 30           | 0.6          | 30           | ).6          |  |
| – Tier 3 (Stage IIIA)   | [t]          | 28                 | 3.9          | 28           | 3.9          | 28           | 3.9          |  |
| Maximum gradeability with Tier 4i (Sta                                      | age IIIB) /  | Tier 4f (Stage IV) |              |              |              |              |              |  |
| – laden   | [%]          | 26.6               | 26.2         | 26.6         | 26.2         | 26.6         | 26.2         |  |
| – unladen   | [%]          | 44.8               | 42.7         | 44.8         | 42.7         | 42.7         | 41.0         |  |
| Maximum gradeability with Tier 3 (Sta                                       | ige IIIA) st | andard engines     |              |              |              |              |              |  |
| – laden   | [%]          | 24.8               | 24.5         | 24.8         | 24.5         | 24.8         | 24.5         |  |
| – unladen   | [%]          | 42.0               | 40.0         | 42.0         | 40.0         | 40.0         | 39.0         |  |

\* TFC 45 and TFC 45 R are available with hydraulic (h) or electronic (hc) controls. All other models are equipped with electronic (hc) controls.



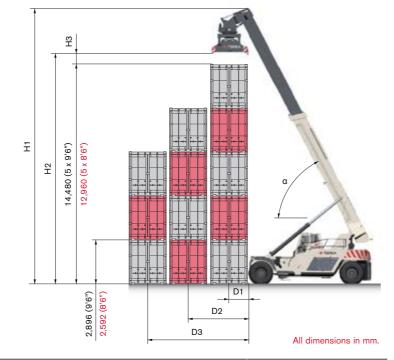
|              |              |                      | TFC 46                |              |                       |                       | (            | :s           |
|--------------|--------------|----------------------|-----------------------|--------------|-----------------------|-----------------------|--------------|--------------|
| MS           | МХ           | MSX                  | LS                    | LX           | LSR                   | LSX                   | 7.5 S6       | 45 KM        |
| ~            |              | <ul> <li></li> </ul> | <ul> <li>✓</li> </ul> |              | <ul> <li>✓</li> </ul> | <ul> <li>✓</li> </ul> |              |              |
|              |              |                      |                       |              |                       |                       |              |              |
|              | 6/6/5        |                      |                       | 6 / 5        | 5/4                   |                       | 6/5/4        | 5/5/3        |
|              | 6 / 5 / 4    |                      |                       | 5/           | 5/4                   |                       | 5 / 4 / 3    | 5/5/3        |
|              |              |                      |                       |              |                       |                       |              |              |
| 45 / 45 / 26 | 45 / 41 / 23 | 45 / 45 / 30         | 45 / 45 / 30          | 45 / 45 / 24 | 45 / 45 / 33          | 45 / 45 / 36          | 10 / 8 / 5   | 45 / 31 / 15 |
|              |              |                      |                       |              |                       |                       |              |              |
|              | 0.31         |                      |                       | 0.           | 28                    |                       | 0.44         | 0.20         |
|              | 0.48         |                      |                       | 0.           | 46                    |                       | 0.50         | 0.30         |
|              |              |                      |                       |              |                       |                       |              |              |
|              | 0.60         |                      |                       | -            | 58                    |                       | 0.38         | 0.20         |
|              | 0.55         |                      |                       | 0.           | 50                    |                       | 0.57         | 0.35         |
|              | 25           |                      |                       | 0            | 5                     |                       | 25           | 15           |
|              | 25           |                      |                       |              | 5                     |                       | 25           | 18           |
|              |              |                      |                       | -            |                       |                       | 20           |              |
|              |              |                      |                       |              |                       |                       |              |              |
| 93.8 / 30.1  | 87.0 / 32.5  | 84.7 / 39.8          | 85.2 / 33.3           | 82.6 / 44.1  | 85.0 / 37.8           | 84.9 / 40.6           | 35.5 / 15.0  | 89.0 / 31.0  |
| 34.1 / 44.8  | 38.1 / 36.4  | 34.5 / 45.0          | 39.0 / 34.5           | 36.4 / 45.3  | 38.8 / 39.0           | 38.7 / 41.8           | 25.0 / 15.5  | 39.5 / 35.5  |
| 78.9         | 74.5         | 79.5                 | 73.5                  | 81.7         | 77.8                  | 80.5                  | 40.5         | 75.0         |
|              |              |                      |                       |              |                       |                       |              |              |
| 18.00-25     | 18.0         | 0-33                 | 18.00-25              |              | 18.00-33              |                       | 14.00-24     | 18.00-25     |
| 13.00-25     |              | 0-33                 | 13.00-25              |              | 13.00-33              |                       | 10.00-24     | 13.00-25     |
|              | 4 / 2        |                      |                       | 4            | / 2                   |                       | 4 / 2        | 4 / 2        |
|              |              |                      |                       |              |                       |                       |              |              |
|              | 30.6         |                      |                       | - 30         | 0.6                   |                       | 14.9         | n/a          |
|              | 28.9         |                      |                       |              | 3.9                   |                       | 14.9         | 30.0         |
|              |              |                      |                       |              |                       |                       |              |              |
| 25.5         | 24.5         | 25.2                 | 24.5                  | 24.2         | 24.8                  | 25.0                  | 32.0         | n/a          |
| 40.5         | 38.0         | 37.5                 | 41.0                  | 37.0         | 38.0                  | 37.5                  | 35.0         | n/a          |
| 04.0         | 00.0         | 00.0                 | 045                   | 00.0         | 04.0                  | 00.5                  | 00.0         | 10.0         |
| 24.2<br>38.5 | 22.3<br>36.5 | 23.0<br>36.0         | 24.5<br>39.0          | 22.0<br>35.0 | 24.2<br>36.5          | 22.5<br>36.0          | 32.0<br>35.0 | 19.0<br>20.0 |
| 30.0         | 30.0         | 30.0                 | 39.0                  | 30.0         | 30.0                  | 30.0                  | 33.0         | 20.0         |

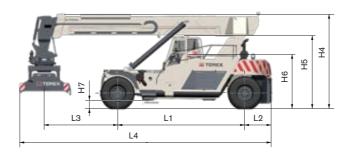
## **COMPACT DESIGN**

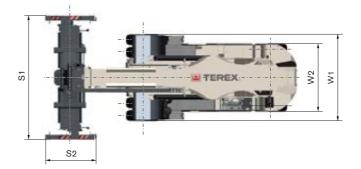
## **MAIN DIMENSIONS**

The compact design of Terex<sup>®</sup> reach stackers allows for flexible and powerful handling combined with excellent maneuverability between container stacks.

On this page, you will find a comprehensive overview of the entire Terex reach stacker model range allowing you a precise planning of your operations.







|        |        |     | TFC 46 |    |        |     | C      | s      |
|--------|--------|-----|--------|----|--------|-----|--------|--------|
| MS     | мх     | MSX | LS     | LX | LSR    | LSX | 7.5 S6 | 45 KM  |
|        |        |     |        |    |        |     |        |        |
| 21,106 | 21,176 |     | 19,924 |    | 19,994 |     | 18,500 | 18,000 |
| 17,806 | 17,876 |     | 16,624 |    | 16,694 |     | 16,050 | 15,000 |
|        |        |     |        |    |        |     |        |        |
| 2,254  | 2,324  |     | 1,072  |    | 1,142  |     | 498    | 2,040  |
| 430    | 500    |     | 2,144  |    | 2,214  |     | 1,570  | 520    |
| 4,256  | 4,596  |     | 4,526  |    | 4,596  |     | 4,300  | 5,315  |
| 3,600  | 3,670  |     | 3,600  |    | 3,670  |     | 3,200  | 3,890  |
| 2,600  | 2,670  |     | 2,600  |    | 2,670  |     | 2,200  | 2,700  |
| 320    | 390    |     | 320    |    | 390    |     | 450    | 450    |
|        |        |     |        |    |        |     |        |        |
|        | 4,190  |     |        |    | 190    |     | 4,500  | 4,200  |
|        | 3,345  |     |        | 3  | 345    |     | 2,500  | 3,300  |
|        |        |     |        |    |        |     |        |        |
|        | 6,500  |     |        | 7, | 000    |     | 5,150  | 6,000  |
|        | 1,300  |     |        |    | 300    |     | 1,200  | 1,250  |
|        | 4,025  |     |        |    | 510    |     | 3,800  | 2,950  |
|        | 13,030 |     |        | 13 | ,030   |     | 11,370 | 11,370 |
|        |        |     | 1      |    |        |     | 1      |        |
|        | 1,320  |     |        |    | 320    |     | 1,300  | 1,380  |
|        | 3,860  |     |        |    | 860    |     | 3,840  | 3,920  |
|        | 6,400  |     |        | 6  | 400    |     | 6,380  | 6,460  |
|        |        |     |        |    |        |     |        |        |
|        | 65     |     |        |    | 65     |     | 67     | 60     |
|        | 10.010 |     |        |    | 000    |     | 11.000 | 11.000 |
|        | 10,640 |     |        |    | ,020   |     | 11,300 | 11,300 |
|        | 12,830 |     |        |    | ,830   |     | 14,200 | 13,650 |
|        | 2,030  |     |        |    | 300    |     | 1,800  | 1,500  |
|        | 9,150  |     |        | 9  | 600    |     | 7,850  | 8,400  |
|        | 7,400  |     |        | 7  | 500    |     | 7,900  | 8,200  |
|        | 10,420 |     |        | -  | ,520   |     | 10,200 | 10,200 |
|        | 10,420 |     | <br>   |    | ,020   |     | 10,200 | 10,200 |
|        | 6,072  |     |        | 6  | 072    |     | 6,050  | 6,050  |
|        | 2,400  |     |        |    | 400    |     | 2,440  | 2,440  |
|        | _,     |     |        |    |        |     | _,     | ,      |

| Mode  |   |      | TFC         | 45     | TFC    | 46     |
|-------|---|------|-------------|--------|--------|--------|
| Mode  | 15  |      | h/hc R h/hc | M MR   | M DRY  | м      |
| Heig  | nts   |      |             |        |        |        |
| H1    | Max. boom height, 1 <sup>st</sup> row                         | [mm] | 18,530      | 18,530 | 19,924 | 21,106 |
| H2    | Max. lifting height under twistlocks, 1 <sup>st</sup> row     | [mm] | 15,230      | 15,230 | 16,624 | 17,806 |
|       | Lifting height clearance <sup>1)</sup>                        |      |             |        |        |        |
| H3    | - 8'6" standard containers                                    | [mm] | 2,270       | 2,270  | 1,072  | 2,254  |
|       | - 9'6" high-cube containers                                   | [mm] | 750         | 750    | 2,144  | 430    |
| H4    | Minimum boom height   | [mm] | 4,530       | 4,530  | 4,256  | 4,256  |
| H5    | Cab height  | [mm] | 3,600       | 3,600  | 3,600  | 3,600  |
| H6    | Driver seat height  | [mm] | 2,600       | 2,600  | 2,600  | 2,600  |
| H7    | Ground clearance (unladen)                                    | [mm] | 320         | 320    | 320    | 320    |
| Widt  | hs  |      |             |        |        |        |
| W1    | Front   | [mm] | 4,190       | 4,190  | 4,19   | 90     |
| W2    | Rear  | [mm] | 3,345       | 3,345  | 3,34   | 45     |
| Leng  | ths   |      |             |        |        |        |
| L1    | Wheelbase   | [mm] | 6,000       | 6,500  | 6,50   | 00     |
| L2    | Rear overhang   | [mm] | 1,300       | 1,300  | 1,30   | 00     |
| L3    | Min. distance driving axle center to load center              | [mm] | 3,450       | 2,950  | 3,625  | 4,025  |
| L4    | Overall length  | [mm] | 11,950      | 11,950 | 12,630 | 13,030 |
| Dista | nces  |      |             |        |        |        |
| D1    | From tires to load center (1 <sup>st</sup> row) <sup>2)</sup> | [mm] | 1,320       | 1,320  | 1,3    | 20     |
| D2    | From tires to load center (2 <sup>nd</sup> row) <sup>2)</sup> | [mm] | 3,860       | 3,860  | 3,80   | 60     |
| D3    | From tires to load center (3 <sup>rd</sup> row) 2)            | [mm] | 6,400       | 6,400  | 6,40   | 00     |
| Othe  | dimensions  |      |             |        |        |        |
| α     | Maximum boom angle  | [°]  | 62          | 62     | 65     | 5      |
|       | 90° stacking aisle  |      |             |        |        |        |
| А     | - 20' containers  | [mm] | 10,210      | 10,640 | 10,6   | 40     |
|       | - 40' containers  | [mm] | 12,830      | 12,830 | 12,8   | 30     |
| R1    | Internal turning radius                                       | [mm] | 1,840       | 2,030  | 2,03   | 30     |
| R2    | Rear turning radius   | [mm] | 8,700       | 9,150  | 9,1    | 50     |
|       | External turning radius                                       |      |             |        |        |        |
| R3    | - 20' containers  | [mm] | 7,400       | 7,400  | 7,40   | 00     |
|       | - 40' containers  | [mm] | 10,420      | 10,420 | 10,4   | 20     |
| Terex | ® Spreader  |      |             |        |        |        |

6,072

2,400

6,072

2,400

6,072

2,400

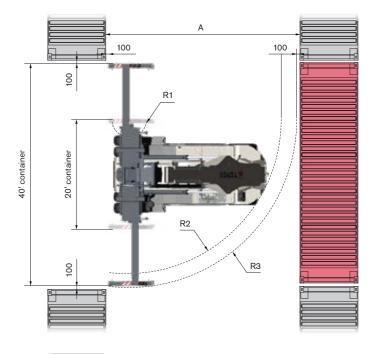
S1 Length

S2 Width

<sup>2)</sup> Measured from stabilizer if supplied

[mm]

[mm]



## **SUITED TO YOUR NEEDS**

### **STANDARD AND OPTIONAL EQUIPMENT**

Terex<sup>®</sup> reach stackers are well-equipped in standard configuration. In addition, TPS offers a comprehensive range of optional equipment and features to configure your Terex reach stacker precisely to your needs, helping you to further increase the operability and efficiency of the machine.

## **USER-FRIENDLY CONTROL SYSTEM**

The control system offers a user-friendly interface with access to intelligent features for economic and easy operation.



The clearly arranged graphics display provides the driver with useful information.

### Terex<sup>®</sup> top pick spreader

The Terex top pick spreader combines low weight with high performance.

#### Telescoping

- Beams extended by simultaneous chain drive
- 20' to 40' within 12 s
- Automatic stop at 30' \*
- Slewing
- +210/-125° within 65 s

### Side shift

- Guided by steel rollers
- +/- 800 mm within 15 s
- Pile slope
- Free: +/- 4°
- Powered: +/- 5° (option) Other features
- 4 x 12 t sling eyes (option: 8 x 12 t)
- Container guides (option)
- Weight: 8 t

#### Equipment

| Section   | Standard              | Option                |
|---|-----------------------|-----------------------|
| Control systems   |                       |                       |
| IQAN-MD3 for TFC types <sup>1)</sup><br>- 3.5" TFT color display<br>- Displayed values: boom length, angle and<br>radius; hydraulic flows and pressures<br>- Internal memory capacity of 80,000 records         | ~                     |                       |
| Logitex for CS 7.5 S6 <sup>2</sup> )<br>- 4.3" TFT color display<br>- Operative and diagnostic black box<br>- Automatic boom lifting with vertical<br>spreader position control<br>- Eco-Power fuel saving mode | ~                     |                       |
| Record transfer system  |                       | <ul> <li>✓</li> </ul> |
| Auto-diagnostic function  | <ul> <li>✓</li> </ul> |                       |
| Load measurement  | ~                     |                       |
| Anti-tipping device   | <ul> <li>✓</li> </ul> |                       |
| Rear parking sensors  |                       | <ul> <li>✓</li> </ul> |
| Rear camera   |                       | <ul> <li>✓</li> </ul> |
| Full vision system (4 cameras)  |                       | <b>V</b>              |
| Cab   |                       |                       |
| Ergonomically designed, soundproofed<br>Noise level: TFC types ≤ 70 dB(A)<br>CS types ≤ 76 / 85 dB(A)   | ~                     |                       |
| Automatic sliding (hydraulically driven) 3)   |                       | <ul> <li>✓</li> </ul> |
| High comfort seat   |                       |                       |
| - with mechanical suspension  | <ul> <li>✓</li> </ul> |                       |
| - with pneumatic suspension   |                       | <ul> <li>✓</li> </ul> |
| Driver seat belt  |                       | <ul> <li>✓</li> </ul> |
| Trainer seat  |                       | <b>V</b>              |
| Air conditioning and heating system   | <ul> <li>✓</li> </ul> |                       |
| CD audio system 4)  | <ul> <li>✓</li> </ul> |                       |

| Section   | Standard  | Option                |
|---|---|-----------------------|
| Spreader and lifting gear   |   |                       |
| Telescopic top pick spreader 20' / 40'  | <ul> <li>Image: A set of the set of the</li></ul> |                       |
| ISO and wide top pick (WTP) container spreader  |   | <ul> <li>✓</li> </ul> |
| Piggyback spreader  |   | <ul> <li>✓</li> </ul> |
| Multistacker configuration via an universal coupling<br>for various lifting gear such as hooks, forks, coil<br>mandrels and many more |   | × .                   |
| Additional design features  |   |                       |
| Lighting  |   |                       |
| - Bulb traffic and working lights   | <ul> <li>V</li> </ul>   |                       |
| - LED traffic and working lights  |   | ~                     |
| <ul> <li>Additional LED working lights</li> </ul>   |   | <ul> <li>✓</li> </ul> |
| Tires   |   |                       |
| - Tubeless pneumatic tires  | <ul> <li>V</li> </ul>   |                       |
| - Plain tread tires   |   | <ul> <li>✓</li> </ul> |
| - Spare tire  |   | <ul> <li>✓</li> </ul> |
| - Tire pressure display   |   | <ul> <li>✓</li> </ul> |
| Others  |   |                       |
| <ul> <li>Automatic lubrication system for chassis,<br/>boom and spreader</li> </ul>   |   | <ul> <li>✓</li> </ul> |
| - Low temperature kit   |   | <ul> <li>✓</li> </ul> |
| - Fire suppression system   |   | <ul> <li>✓</li> </ul> |
| - Heated rear view mirrors  |   | <ul> <li>✓</li> </ul> |
|   |   |                       |

<sup>1)</sup> Option for model TFC 45 h <sup>2)</sup> Data of CS 45 KM model on request <sup>3)</sup> Standard for all TFC 46 L models <sup>4)</sup> Option for models TFC 45 h and TFC 45 R h

More information about additional options on request.





\* Option for models TFC 45 h and TFC 45 R h

# FOR ALL YOUR APPLICATIONS

### SOLUTIONS FOR CONTAINER, GENERAL AND PROJECT CARGO HANDLING

Besides the Terex<sup>®</sup> standard top pick spreader, TPS also offers wide top pick (WTP) and piggyback spreaders allowing to master various container standards as well as demanding intermodal handling with ease.

#### Piggyback spreader for intermodal handling



## **EFFICIENT TEAMWORK**

From loading and unloading, to transport, stacking and handling – combining Terex<sup>®</sup> Gottwald harbour cranes with Terex<sup>®</sup> reach stackers is a flexible solution for covering the entire cargo handling chain in terminals.

- Flexible container handling equipment from one single source
- Harmonized technology base
   Combined maintenance and service offer

Terex reach stackers interact with a Terex Gottwald Model 5 mobile harbour crane at the Port of Lübeck, Germany

INERSHIPS

#### Versatile cargo transport

Terex reach stackers are excellent tool carriers when equipped with the proper attachment. Safely and efficiently, they manage the handling of heavy and bulky goods in various industries like steel, wood, wind power and concrete precast industry.

Terex reach stackers can also be equipped with matching lifting equipment, including:

- hooks,
- **C** hooks for coil handling,
- magnetic or
- scissor-type grabs.

#### More flexibility with multistacker configuration

The optional multistacker configuration allows the flexible mounting of various lifting devices via a universal coupling at the top of the boom. A convenient feature, for example, in the steel industry when different semi-finished products have to be handled.











# IN THE BEST OF HANDS

### **FULL LIFE CYCLE SUPPORT**

For all its port technology products, TPS offers reliable, worldwide, customer-oriented service. This means that our machines are maintained at the highest possible level of availability while securing the value of your investments. We have a dedicated, integrated, reliable service network that provides professional troubleshooting to support you efficiently. When you purchase a product bearing the Terex<sup>®</sup> or Terex<sup>®</sup> Gottwald brand, we provide a contact responsible in your region. This helps overcome language barriers and time zones and provides help quickly whenever needed.

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## www.terexportsolutions.com

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## WORKS FOR YOU.