

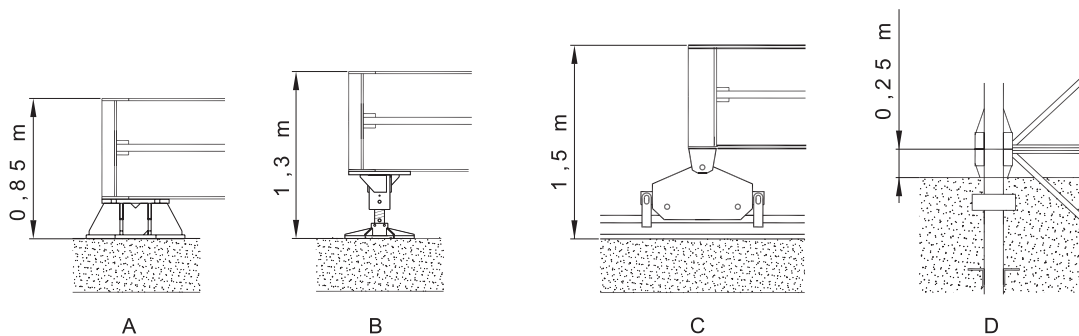
# SAEZ

CRANES



## TL 402 2T





|                                                                                     |         |   |   |         |   |         |   |         |   |         |  |  |
|-------------------------------------------------------------------------------------|---------|---|---|---------|---|---------|---|---------|---|---------|--|--|
|  | 40 m    |   |   | 35 m    |   | 30 m    |   | 24 m    |   | 18 m    |  |  |
|  | A       | B | C | A       | B | A       | B | A       | B | C       |  |  |
|                                                                                     | 2       | 1 | 1 | 2       | 1 | 2       | 1 | 2       | 2 | 1       |  |  |
|                                                                                     | 5500 kg |   |   | 4800 kg |   | 4800 kg |   | 3800 kg |   | 2700 kg |  |  |

Curvas de cargas  
Load diagrams  
Lastkurven  
Courbes de charges  
Curve di carico

30 m



|      |      |      |      |      |      |      |      |
|------|------|------|------|------|------|------|------|
| 10   | 12   | 14   | 16   | 17   | 18   | 20   | 21   |
| 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 |

|      |      |      |      |      |      |      |   |                                                                                     |
|------|------|------|------|------|------|------|---|-------------------------------------------------------------------------------------|
| 22   | 23   | 24   | 25   | 27.8 | 28.2 | 30   | m |  |
| 2000 | 2000 | 2000 | 2000 | 2000 | 1974 | 1900 |   |                                                                                     |

24 m



|      |      |      |      |      |      |      |      |      |      |      |
|------|------|------|------|------|------|------|------|------|------|------|
| 10   | 12   | 14   | 16   | 17   | 18   | 20   | 20,5 | 21   | 22   | 24   |
| 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 |

m

Kg



18 m



|      |      |      |      |      |
|------|------|------|------|------|
| 10   | 12   | 14   | 16   | 18   |
| 2000 | 2000 | 2000 | 2000 | 2000 |

m

Kg



40 m



|      |      |      |      |      |      |      |      |      |      |      |
|------|------|------|------|------|------|------|------|------|------|------|
| 10   | 12   | 14   | 16   | 17   | 18   | 20   | 21   | 21,6 | 22   | 23   |
| 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 1963 | 1869 |

|      |      |      |      |      |      |      |      |      |      |
|------|------|------|------|------|------|------|------|------|------|
| 24   | 25   | 26   | 28   | 30   | 32   | 34   | 35   | 38   | 40   |
| 1782 | 1703 | 1630 | 1500 | 1388 | 1291 | 1205 | 1166 | 1061 | 1000 |

m

Kg



35 m



|      |      |      |      |      |      |      |      |      |      |      |
|------|------|------|------|------|------|------|------|------|------|------|
| 10   | 12   | 14   | 16   | 17   | 18   | 20   | 21   | 22   | 23   | 23,8 |
| 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 |

|      |      |      |      |      |      |      |      |      |
|------|------|------|------|------|------|------|------|------|
| 23,8 | 24   | 25   | 26   | 28   | 30   | 32   | 34   | 35   |
| 2000 | 1980 | 1892 | 1812 | 1669 | 1545 | 1438 | 1343 | 1300 |

m

Kg



|                                                                                     |                                                                                              |                                                                                     |         |      |      |
|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------|------|------|
| 12 Hp (9 Kw) 3V<br>H.B.G. 84 S/R 169m Ø10 mm                                        |                                                                                              |  |         |      |      |
|  | <br>169 m | m/min                                                                               | 4,5     | 20   | 40   |
|                                                                                     |                                                                                              | Kg                                                                                  | 2000    | 2000 | 1000 |
|                                                                                     |                                                                                              | Kw                                                                                  | 9       | 9    | 9    |
|  |                                                                                              | m/min                                                                               | 20 / 40 |      |      |
|                                                                                     |                                                                                              | Kw                                                                                  | 1,5     |      |      |
|  |                                                                                              | r.p.m                                                                               | 0,38    | 0,58 | 0,85 |
|                                                                                     |                                                                                              | Kw                                                                                  | 2,9     |      |      |

|                                                                                     |                                                                                              |                                                                                     |      |      |      |
|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------|------|------|
| * 12 Hp INV (9 Kw)<br>H.B.G. 84 S/R 169m Ø10 mm                                     |                                                                                              |  |      |      |      |
|  | <br>169 m | m/min                                                                               | 4,5  | 20   | 40   |
|                                                                                     |                                                                                              | Kg                                                                                  | 2000 | 2000 | 1000 |
|                                                                                     |                                                                                              | Kw                                                                                  | 9    | 9    | 9    |

Mecanismos  
Mechanisms  
Antriebe  
Mécanismes  
Meccanismi

|                                                                                                         |                |                  |                                    |
|---------------------------------------------------------------------------------------------------------|----------------|------------------|------------------------------------|
| <br>CEI 38<br>IEC 38 | 400 V<br>50 Hz | * 380 V<br>60 Hz | 12 Hp (9 Kw) 3V<br>15kW / 60kVA    |
|                                                                                                         |                |                  | * 12 Hp INV (9 Kw)<br>15kW / 60kVA |

|                                                                                     |                                                                                     |                        |                        |                        |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------------------|------------------------|------------------------|
|  |  | 25 m                   | 50 m                   | 100 m                  |
|                                                                                     | 12 Hp (9 KW ) 3V                                                                    | 4 x 16 mm <sup>2</sup> | 4 x 16 mm <sup>2</sup> | 4 x 25 mm <sup>2</sup> |
|                                                                                     | * 12 Hp INV (9 KW )                                                                 | 4 x 16 mm              | 4 x 16 mm              | 4 x 25 mm              |

Mecanismos  
Mechanisms  
Antriebe  
Mécanismes  
Meccanismi

15 Hp (11,5 Kw) 3V  
H.B.G. 84 S/R Ø 10 mm

|  |       |       |      |      |      |
|--|-------|-------|------|------|------|
|  |       |       |      |      |      |
|  |       | m/min | 8    | 29   | 58   |
|  | 240 m | Kg    | 2500 | 2500 | 1000 |
|  |       | Kw    | 11,5 | 11,5 | 11,5 |

|                  |                |                  |                                     |
|------------------|----------------|------------------|-------------------------------------|
|                  | 400 V<br>50 Hz | * 380 V<br>60 Hz | 15 Hp (11,5 Kw) 3V<br>24KW / 90 kVA |
| CEI 38<br>IEC 38 |                |                  |                                     |

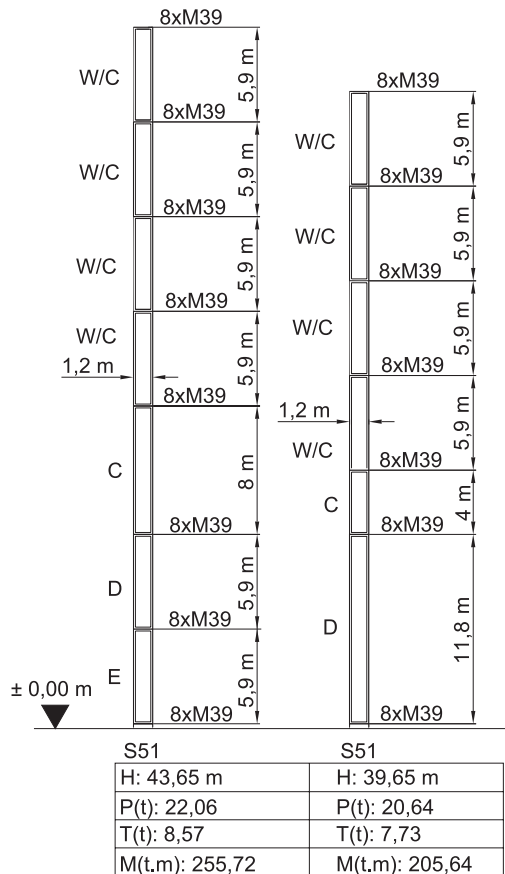
|                     |                        |                        |                        |
|---------------------|------------------------|------------------------|------------------------|
|                     | 25 m                   | 50 m                   | 100 m                  |
| 15 Hp (11,5 KW ) 3V | 4 x 16 mm <sup>2</sup> | 4 x 16 mm <sup>2</sup> | 4 x 25 mm <sup>2</sup> |

\* Opcional / Optional / Opzionale / По выбору

Elevación / Hoisting / Heben / Levage / Sollevamento / Подъём

Windzone A-B / DIN 15019  
Mástil / Reacciones  
Masts / Reactions  
Maste / Eckdrücke  
Mat / Réactions  
Torre / Reazioni

W: TORRE TL 402 1.20 M39/M39 8/8  
C: TORRE S/TL 36-41-46-40-45 1.20 M39/M39 8/8  
D: TORRE S/TL 50-52 1.20 M39/M39 8/8  
E: TORRE TL 55 1.20 M39/M39 8/8





### Windzone A-B / DIN 15019

Bloque lastre de base

Base ballast block

Grundballastblöcke

Bloc de lest de base

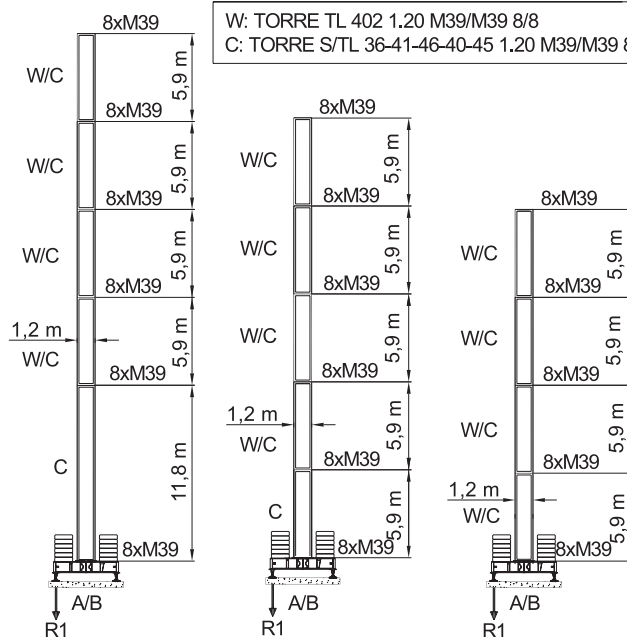
Blocco di zavorra alla base

\* EN SERVICIO / IN SERVICE

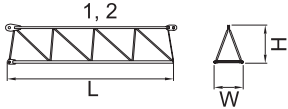
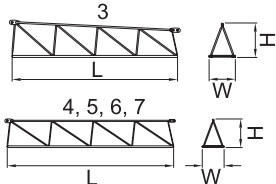
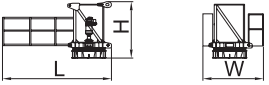
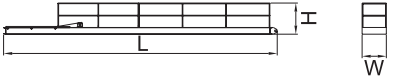
\*\* FUERA DE SERVICIO / OUT OF SERVICE

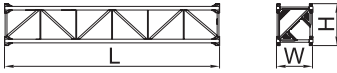
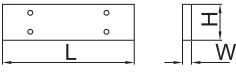
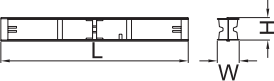
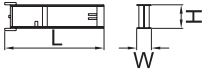
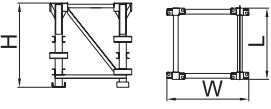
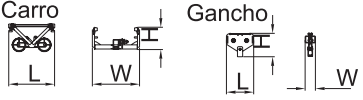
W: TORRE TL 402 1.20 M39/M39 8/8

C: TORRE S/TL 36-41-46-40-45 1.20 M39/M39 8/8



|                           |                           |                           |
|---------------------------|---------------------------|---------------------------|
| H(m): 36,4                | H(m): 28,6                | H(m): 24,6                |
| BASE 3,8x3,8<br>1,2 HB600 | BASE 3,2x3,2<br>1,2 HB600 | BASE 3,2x3,2<br>1,2 HB600 |
| LASTRE: 76 Tn             | LASTRE: 53,2 Tn           | LASTRE: 45,6 Tn           |
| *R1= 44,9 Tn              | *R1= 39,23 Tn             | *R1= 35,68 Tn             |
| **R1= 50,00 Tn            | **R1= 35,59 Tn            | **R1= 28,39 Tn            |
|                           | BASE 3,8x3,8<br>1,2 HB600 | BASE 3,8x3,8<br>1,2 HB600 |
|                           | LASTRE: 45,6 Tn           | LASTRE: 38 Tn             |
|                           | *R1= 34,79 Tn             | *R1= 30,00 Tn             |
|                           | **R1= 31,06 Tn            | **R1= 22,73 Tn            |

|                                                                                                                                                                                                                                                                                                                                            |                                                                                      |      | L(m) | W(m) | H(m) | Peso(Kg) |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|------|------|------|------|----------|
| <b>Pluma tramo primero / Jib heel section</b><br>Ausleger-Anlenkstück / Pied de fleche<br>Settore articolato di braccio                                                                                                                                                                                                                    |  | 1    | 5,9  | 0,8  | 1,33 | 597      |
|                                                                                                                                                                                                                                                                                                                                            |                                                                                      | 2    | 5,9  | 0,8  | 1,33 | 707      |
|                                                                                                                                                                                                                                                                                                                                            |                                                                                      |      |      |      |      |          |
| <b>Elemento intermedio de pluma</b><br>Intermediatejib section / Ausleger-Zwischenstück<br>Element interm. de fleche / Spezzone di braccio                                                                                                                                                                                                 |   | 3    | 5,9  | 0,8  | 1    | 330      |
|                                                                                                                                                                                                                                                                                                                                            |                                                                                      | 4    | 5,9  | 0,8  | 1    | 297      |
|                                                                                                                                                                                                                                                                                                                                            |                                                                                      | 5    | 5,9  | 0,8  | 1    | 263      |
|                                                                                                                                                                                                                                                                                                                                            |                                                                                      | 6    | 5,9  | 0,8  | 1    | 238      |
|                                                                                                                                                                                                                                                                                                                                            |                                                                                      | 7    | 5,9  | 0,8  | 1    | 198      |
|                                                                                                                                                                                                                                                                                                                                            |                                                                                      |      |      |      |      |          |
|                                                                                                                                                                                                                                                                                                                                            |                                                                                      |      |      |      |      |          |
| <b>Zocalo, conjunto elevacion, cuadro electrico, cuspid</b><br>Counterjib-turntable, hoisting winch, trolley jib, electrical box, a frame. / Gegenausleger, hubwinde, drehwerk, schaltschrank / Contrefleche tournante, treuil de levage, armoire electrique, pointe / Controfreccia girevole, argano di sollev., quadro elettrico, cuspid |   | 2,24 | 1,42 | 1,8  | 1925 |          |
|                                                                                                                                                                                                                                                                                                                                            |                                                                                      |      |      |      |      |          |
| <b>Contrapluma / Counterjib</b><br>Gegenausleger / Contrefleche / Controfreccia                                                                                                                                                                                                                                                            |  | 8,84 | 1,44 | 1,23 | 1113 |          |
|                                                                                                                                                                                                                                                                                                                                            |                                                                                      |      |      |      |      |          |

|                                                                                                                                                       |                                                                                      |               | L(m)  | W(m) | H(m)  | Peso(Kg) |
|-------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------|-------|------|-------|----------|
| <b>Elemento de torre /</b> Tower section<br>Turmstück / Element de mât<br>Elemento di torre                                                           |    | W             | 5,9   | 1,2  | 1,38  | 1072     |
|                                                                                                                                                       |                                                                                      | W             | 2,95  | 1,2  | 1,38  | 625      |
|                                                                                                                                                       |                                                                                      | C             | 11,8  | 1,2  | 1,38  | 2520     |
|                                                                                                                                                       |                                                                                      | C             | 8,0   | 1,2  | 1,38  | 1870     |
|                                                                                                                                                       |                                                                                      | C             | 5,9   | 1,2  | 1,38  | 1348     |
|                                                                                                                                                       |                                                                                      | C             | 4,0   | 1,2  | 1,38  | 1050     |
|                                                                                                                                                       |                                                                                      | E             | 11,8  | 1,2  | 1,38  | 4600     |
|                                                                                                                                                       |                                                                                      | E             | 8,0   | 1,2  | 1,38  | 2654     |
|                                                                                                                                                       |                                                                                      | E             | 5,9   | 1,2  | 1,38  | 2090     |
|                                                                                                                                                       |                                                                                      | E             | 4,0   | 1,2  | 1,38  | 1527     |
| <b>Bloque de contrapeso /</b> Counterweight blocks<br>Gegengewichtsblöcke / Bloc de contrepoids<br>Blocco di contrappeso                              |    | A             | 2,470 | 0,40 | 1,0   | 1900     |
|                                                                                                                                                       |                                                                                      | B             | 2,470 | 0,21 | 1,0   | 1000     |
|                                                                                                                                                       |                                                                                      | C             | 1,740 | 0,21 | 1,0   | 700      |
| <b>Bloque lastre de base /</b> Base ballast block<br>Grundballastblöcke / Bloc de lest de base<br>Blocco di zavorra alla base                         |     |               | 4,4   | 1,2  | 0,3   | 3800     |
| <b>Viga principal base /</b> Main base beam<br>Hauptträger für fundamentkreuz<br>Poutre de châssis de base<br>Trave principale della base             |    | (3,8 x 3,8 m) | 5,72  | 0,67 | 0,650 | 1570     |
|                                                                                                                                                       |                                                                                      | (3,2 x 3,2 m) | 4,72  | 0,67 | 0,650 | 1305     |
| <b>Semiviga secundaria base /</b> Half base beam<br>Halbträger für fundamentkreuz<br>Semipoutre de châssis de base<br>Semitrave secundaria della base |    | (3,8 x 3,8 m) | 2,77  | 0,45 | 0,665 | 800      |
|                                                                                                                                                       |                                                                                      | (3,2 x 3,2 m) | 2,37  | 0,45 | 0,665 | 668      |
| <b>Elemento de empotre /</b> Foundation anchor<br>Fundamentanker / Élément de scellement<br>El annegare                                               |   | S51           | 1,2   | 1,38 | 1,42  | 496      |
|                                                                                                                                                       |                                                                                      | S52R          | 1,2   | 1,38 | 1,42  | 594      |
| <b>Gancho y Carro /</b> Hook and Trolley<br>Lasthaken - Laufkatze / Crochet - Chariot<br>Gancio e Carrello / Крюк и тележка                           |  | Carro         | 0,84  | 0,9  | 0,51  | 64       |
|                                                                                                                                                       |                                                                                      | Gancho        | 0,52  | 0,2  | 0,7   | 70       |

### **ESPECIFICACIONES SUJETAS A MODIFICACIONES SIN PREVIO AVISO.**

Specifications subject to modification without notice.  
Obiges kann ohne berstaendigung geaendert werden.  
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**UNE 58-101-92 FEM 1001-87**  
According to EC 98/37 instruction

Windzone A-B / DIN 15019

Viento max. fuerza de servicio 150km/h  
Maximun wind speed out of service 150 km/h  
Maximale windstärke, ohne Betrieb 150 km/h  
Vent maximum, hors service 150 km/h  
Vento max, fuori di servizio 150 km/h

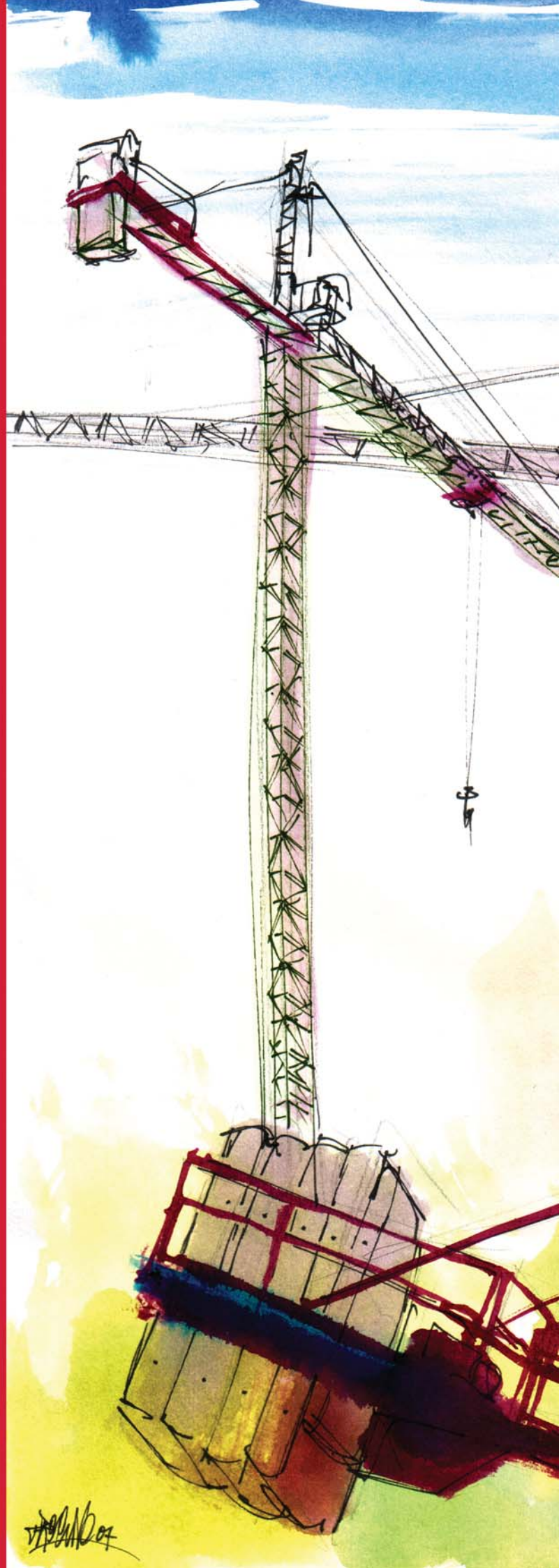




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