



The Organ  
at  
St. Matthew Lutheran Church  
Hanover, Pennsylvania





*New Console 2014*

*The ORGAN is in truth the grandest, the most daring, the most magnificent of all instruments invented by human genius. It is a whole orchestra in itself. It can express anything in response to a skilled touch. Surely it is, in some sort, a pedestal on which the soul poises for a flight forth into space, essaying on her course to draw picture after picture in an endless series, to paint human life, to cross the Infinite that separates Heaven from Earth! And the longer a dreamer listens to those giant harmonies, the better he realizes that nothing save this hundred-voiced choir on earth can fill all the space between kneeling men and a God hidden by the blinding light of Sanctuary. Out of the daylight, out of the dim silence broken by the chanting of a choir in response to the thunder of the organ, a veil is woven for God, and the brightness of His Attributes shines through it.*

*-Honore de Balzac*

An Organ Fund has been established to help with the maintenance of this great treasure. Gifts to the Organ Fund are most welcome.

Recordings of this organ can be purchased through the Church Office or through the church website: [www.stmattlutheran.org](http://www.stmattlutheran.org).



St. Matthew Lutheran Church  
30 W. Chestnut Street  
Hanover, PA 17331  
717-637-7101  
[www.stmattlutheran.org](http://www.stmattlutheran.org)

Edition #13, 2016

## Resume of the Development of the Organ

1925

The original organ was installed in the new church by the Austin Organ Company. This instrument comprised five divisions, contained 87 speaking stops and nearly 5000 pipes, controlled by a four manual console.

1929

The organ was enlarged by the addition of 2,800 pipes and a new console was installed.

1931

The Solo Organ was moved to a new chamber above the chancel, and increased to 31 ranks. In this chamber were also placed the new Pedal Bombardes, Contra Bourdon, and a Pedal Mixture of five ranks. Another new chamber was built above the roof of the church to house a new String Organ 18 ranks. A new Celestial Organ of 18 ranks was installed in the gallery chamber which formerly contained the Solo division.

1934

Tonal improvements were made in the Great and Swell Organs, and a brilliant new trumpet for the Swell Organ was added.

1964

The Organ was completed by the installation of an independent Pedal division in a new chamber behind the Swell Organ. Selective tonal revisions were made throughout the organ including the new Trompette Royale on 20-inch pressure installed in the Solo Organ. The console was returned to the factory for total rebuilding.

1971

Several ranks were added, bringing the total to 231, controlled by 239 stops. This increased the number of pipes to 14,341.

1982

Through an action of the Church Council, in consultation with the Minister of Music and Austin Organ, Inc., the organ was declared complete in February, 1982. The estimated value of the instrument is in excess of \$1,500,000.

1988

A 198-bell Maas-Rowe Carillon was added to the organ. The three-octave carillon includes: Symphonic Carillon, Flemish Bells, Harp, Celeste, English Bells (major), English Bells (minor), Bourdon Bells (16') Upper Minor Bells (4'). The carillon is playable from the Solo and Great Keyboards, as well as the Pedal. Memorials covered the cost of this instrument.



### 1990's to 2016

The Organ was showing signs of its age and various problems were detected due to water damage from roof leaks. After extensive study, it was determined by the music staff, the Church Council and then the congregation that the instrument needed to be totally renovated. The total \$1.5 million dollar renovation was done by the Austin Organs, Inc. During the renovation all wiring was replaced, thousands of pipes were cleaned, re-built and re-voiced as needed, a new balcony antiphonal division was installed, the chamber walls were sealed and air chests rebuilt. A new console and operating system were built and installed in April of 2014. The organ was rededicated on October 23, 2016.

### Organists of St. Matthew

|   |  |   |
|---|--|---|
| <b>J. Herbert Springer</b><br>(1917 – 1968)                         | <b>James E. Derr</b><br>(1968 – 1974)  | <b>Thomas W.D. Guthrie</b><br>(1974 – 1980)   |
| <b>Scott G. Fredericks</b><br><i>Minister of Music</i><br>(1980 - ) | <b>Margie Lee</b><br><i>Associate<br/>Minister of Music</i><br>(1996 – 2002) | <b>Karen L. Buckwalter</b><br><i>Associate<br/>Minister of Music</i><br>(2002 - 2014) |

### The St. Matthew Organ

St. Matthew Lutheran congregation has had a continuous history since its organization on April 14, 1743. The present church edifice was completed in 1924, and is the fifth structure in which the congregation has worshiped during its long, continuous history. The organ for this fifth church was conceived and planned by J. Herbert Springer, organist of the church and given by Mrs. Clara Glatfelter Moul. The original instrument had a scope of 87 speaking stops, and nearly 5,000 pipes, and was constructed by the Austin Organ Company of Hartford, Connecticut. It was dedicated on January 13, 1925. The divisions of the organ were placed in chambers on both sides of the chancel, and on both sides of the gallery.

In 1929, brighter mixtures were added to the Great and Swell divisions; there were additional reeds, and many ranks of soft flutes and strings. The Echo organ was increased from 10 to 21 ranks. In all, about 2,800 pipes were added. A new console was necessary at that time. While this work was in progress, the solution for a long-time problem was found. The Solo organ of 6 ranks had been placed, because of lack of space, in a chamber above the rear gallery, away from the main organ in the front of the nave. It was discovered that above the ceiling of the chancel was an unused loft where an ideal Solo chamber could be built. Mrs. Moul was again enthusiastic in her cooperation. A grill ceiling was built over the chancel, a large organ chamber constructed, the Solo Organ

moved and increased to 31 ranks. In this chamber were also placed the new Pedal Bombardes, the Contra Bourdon, and a Pedal Mixture of five ranks. Another new chamber was built above the roof of the church to house a new String organ of 18 ranks, with tonal egress through the grills of the chancel ceiling. In the old Solo chamber above the gallery, a new Celestial organ of 18 ranks was installed. These additions totaled about 5,000 pipes. The organ was rededicated on December 1, 1931.

By this time, the fine old German organ music of the seventeenth and eighteenth centuries was being re-discovered, appreciated and played. This intricate polyphonic music sounded well only on an organ of bright clear tone. The need was felt for still more brilliance in the higher pitched ranks of the organ. In 1934, the Great Diapason chorus, new mixtures in both Great and Swell organs, and a brilliant new trumpet for the Swell were installed and artistically finished in the church.

Several decades passed without further change to the instrument, although there remained a bequest from the original donor for the completion of Mr. Springer's plans. In 1959 it became possible to proceed with this final stage, i.e., a proper, independent Pedal division. This involved the construction of a new chamber behind the Swell Organ which would be comprised of 14 ranks. The pedal organ would speak through the swell openings. This new section was completed and dedicated in 1964.

During this intervening period from 1934, the renaissance in organ building in America continued to gain momentum, and so it was decided that further tonal changes in other sections of the organ would be essential for compatibility with the new Pedal division. Therefore in the Choir Organ, 18 ranks were replaced by new pipes to provide some Baroque registers and to create a foil to the Great: in the Great Organ, the mixtures were reworked and augmented and three new ranks of flutes were added; in the Swell Organ, strings were replaced and revoiced, selected reeds were revoiced; in the Solo Organ the old Tuba Magna was replaced by a grand Trompette Royale on 20-inch pressure. Other minor changes were made in other divisions. To accommodate extensive additions and alterations, the console required factory rebuilding. Since 1964 a few special ranks have been added, along with a Cymbelstern of 4 bells. Also the tower belltones have been made playable from the console. Wind is supplied by four blowers which have a total of 37 horse power. The main blower is located in the basement. The remaining three are located in the bell tower above the Echo chamber supplying pressures varying from 7" to 20." Key Current is supplied by an Orgelectra 50-amp rectifier.

During the late 1990's, the organ was increasingly experiencing issues with worn leather, large pipes collapsing under their weight, air leaks in the



chests, wiring issues with the cotton covered wiring from the 1920's. The console was wearing out and could not be trusted. It was discovered there were several leaks in the church roof where water seeped into the pipe chambers, allowing plaster and the chests to get wet. Plaster fell into the pipes and caused damage and dead notes to pipes in both the front organ and the balcony chambers. The Ministers of Music began to explore emergency repairs and what would be involved in a full renovation.

In 2006, an Organ Committee was formed to investigate the condition of the instrument. The committee received a number of proposals and complete evaluations of the organ. Austin Organs, Inc. from Hartford, CT, the original builder of our organ, was selected to build a new console and perform the needed renovations to the instrument. In 2009, the congregation voted to move forward with the \$1.3 million project. The organ would be made solid state; modern technology would be incorporated in the console; all wiring would be replaced; many pipes would be removed for cleaning and voicing; all leather would be replaced; the pipe chamber walls would be replaced; new lighting and electric outlets would be placed in the chambers, the balcony Antiphonal and Gallery Pedal organ would be enhanced; and several digital stops by Walker would be added to balance divisions properly where pipes could not be added. The carillon system was modernized by Maas-Rowe Carillons and incorporated into the new console. The organ renovation was funded by a leadership gift of over one million dollars with the remaining costs covered by the fine support of our congregation and community.

In 2016, Austin Organs determined additional funding was needed to complete the project. Church Council voted in September to add up to \$250,000 to complete the renovation. The additional funding was donated by our leadership benefactor. The renovation was completed in October. The organ was rededicated on October 23, 2016. Over the years, it has been enlarged to the extent that it ranks among the ten largest pipe organs in the world.

An Organ Fund has been created to assist with regular maintenance and tuning of this remarkable organ. Donations, memorial and honorarium contributions to the Fund are welcome as we seek to keep this musical treasure in excellent working order for both the current and future generations of worshippers and music lovers.

This instrument was built and dedicated that its music might resound to the Glory of God and to the uplifting of God's people in worship. It was also the desire of the donors and the earnest hope of the designers-organists that its beautiful and glorious tones might give inspiration and pleasure to many beyond the membership of the St. Matthew congregation.

## AUSTIN 1215 SPECIFICATIONS

4/238

### Great Organ

Manual II 7" Wind Pressure

| Pipes  |                                  | Pipes |        |                                  |     |
|--------|----------------------------------|-------|--------|----------------------------------|-----|
| 16'    | Double Diapason                  | 61    | 2'     | Waldflöte                        | 61  |
| 16'    | Bourdon                          | 85    | 1 3/5' | Seventeenth                      | 61  |
| 8'     | First Diapason                   | 61    |        | Mixture IV-VI                    |     |
| 8'     | Second Diapason                  | 61    |        | 12-15-19-22                      | 330 |
| 8'     | Harmonic Flute                   | 61    |        | Fourniture V                     |     |
| 8'     | Clarabella                       | 61    |        | 15-19-22-26-29                   | 305 |
| 8'     | Stopped Flute ( <i>Bourdon</i> ) |       |        | Scharf IV 22-26-29-33            | 244 |
| 8'     | Violon Cello                     | 61    | 16'    | Double Trumpet                   | 73  |
| 8'     | Gemshorn                         | 61    | 8'     | Trumpet (16')                    |     |
| 8'     | Gemshorn Celeste                 | 61    | 8'     | Tromba                           | 73  |
| 5 1/3' | Quint                            | 61    | 4'     | Clarion ( <i>Tromba</i> )        |     |
| 4'     | Principal                        | 61    | 8'     | Orchestral Horn ( <i>Solo</i> )  |     |
| 4'     | Octave                           | 61    | 8'     | Trompette Royale ( <i>Solo</i> ) |     |
| 4'     | Flute Ouverte                    | 61    |        | Trompette Royale Melody          |     |
| 4'     | Lieblichflöte ( <i>Bourdon</i> ) |       |        | Piano (D)                        |     |
| 3 1/5' | Tenth                            | 61    |        | Great to Great 16                |     |
| 2 2/3' | Twelfth                          | 61    |        | Great Unison Off                 |     |
| 2'     | Superoctave                      | 61    |        | Great to Great 4                 |     |





## Swell Organ

Manual III 7" Wind Pressure

|                             | Pipes |                                     | Pipes |
|-----------------------------|-------|-------------------------------------|-------|
| 16' Lieblich Gedeckt        | 73    | 2 2/3' Rohr Nasat                   |       |
| 16' Double Dulciana         | 97    | ( <i>Inverted Chimney</i> )         | 61    |
| 16' Contra Geigen           | 73    | 2' Fifteenth                        | 61    |
| 8' Rohrflöte                |       | 2' Piccolo                          | 61    |
| ( <i>Inverted Chimney</i> ) | 73    | 1 3/5' Tierce                       | 61    |
| 8' Zartflöte                | 73    | 1 1/3' Larigot                      | 61    |
| 8' Holzgedeckt              | 73    | Plein Jeu                           |       |
| 8' Harmonic Flute           | 73    | 12-15-19-22-26                      | 305   |
| 8' Diapason                 | 73    | Sesquialtera V                      |       |
| 8' Flute Celeste IIR        | 134   | 12-15-17-19-22                      | 305   |
| 8' Quintadena               | 73    | Acuta III-IV                        |       |
| 8' Violin                   | 73    | 24-26-29                            | 220   |
| 8' Viole Celeste            | 73    | 16' Contra Fagotto                  | 73    |
| 8' Viole de Gambe           | 73    | 16' Heckelphone                     | 73    |
| 8' Salicional               | 73    | 8' English Horn                     | 73    |
| 8' Voix Seraphique IIR      | 134   | 8' Harmonic Trumpet                 | 73    |
| 8' Viole Celeste IIR        | 73    | 8' Oboe                             | 73    |
| 8' Dulciana (16')           |       | 8' Cornopean                        | 73    |
| 8' Dulciana Celeste         | 73    | 8' Vox Humana                       | 61    |
| 4' Principal                | 73    | 8' Trompette Royale ( <i>Solo</i> ) |       |
| 4' Flauto Traverso          | 73    | 4' Hautbois Octaviant               | 61    |
| 4' Octave                   | 73    | 4' Clarion                          | 73    |
| 4' Chimney Flute            | 73    | Swell to Swell 16                   |       |
| 4' Dulcet (16')             |       | Swell to Swell 4                    |       |
| 4' Dulcet Celeste (8')      |       | Swell Unison Off                    |       |
| 4' Violina                  | 73    | Tremulan                            |       |



## Choir Organ

Manual I 7" Wind Pressure

|                        | Pipes |                                    | Pipes |
|------------------------|-------|------------------------------------|-------|
| 16' Flute Conique      | 85    | Plein Jeu IV                       |       |
| 16' Contra Viola       | 73    | 15-19-22-26                        | 244   |
| 8' Geigen Principal    | 73    | Zimbel III 36-40-43                | 183   |
| 8' Viola de Gambe      | 73    | 16' Baryton                        | 73    |
| 8' Quintaten           | 73    | 8' Clarinet                        | 73    |
| 8' Chimney Flute       | 73    | 8' Oboe d'Amoure                   | 73    |
| 8' Flute Conique (16') |       | 8' Trompette                       | 73    |
| 8' Flute Celeste       | 61    | 8' Regal                           | 61    |
| 8' Dulciana            | 73    | 8' Vox Humana                      | 61    |
| 8' Unda Maris          | 49    | 8' Orchestral Horn ( <i>Solo</i> ) |       |
| 4' Principal           | 73    | 8' Trompette Royale                |       |
| 4' Viola d'Amoure      | 61    | ( <i>Solo</i> )                    |       |
| 4' Flute d'Amour       | 73    | 4' Rohr Schalmel                   | 73    |
| 4' Waldflöte           | 73    | Harp (Deagan) 61 Bars              |       |
| 2 2/3' Nasard          | 61    | Tremulant                          |       |
| 2' Blockflöte          | 61    | Choir To Choir 16                  |       |
| 1 3/5' Tierce          | 61    | Choir Unison Off                   |       |
| 1 1/3' Larigot         | 61    | Choir To Choir 4                   |       |
| 1' Sifflöte            | 61    | Manual Transfer                    |       |

## Solo Organ

Manual IV 10" Wind Pressure

|  | Pipes |                                      | Pipes |
|--|-------|--------------------------------------|-------|
| 16' Bourdon                              | 73    | 16' Bass Clarinet                    | 73    |
| 8' Diapason                              | 73    | 8' Trompette Militaire               | 73    |
| 8' Grossflöte                            | 73    | 8' Trompette Royale                  | 73    |
| 8' Doppelflöte                           | 73    | ( <i>20" wind pressure</i> )         |       |
| 8' Orchestral Flute                      | 73    | 8' Tuba Sonora                       | 73    |
| 8' Dulzflöte                             | 73    | 8' Trombone (16')                    |       |
| 8' Gamba                                 | 73    | 8' Orchestral Horn                   | 61    |
| 8' Gamba Celeste                         | 73    | ( <i>20" wind pressure</i> )         |       |
| 8' Violoncello                           | 73    | 8' French Horn                       | 73    |
| 8' Violoncello Celeste                   | 73    | 8' Corno di Bassetto                 | 73    |
| 4' Octave                                | 73    | 8' Bassoon                           | 73    |
| 4' Flute Ouverte                         | 73    | 8' Orchestral Oboe                   | 61    |
| 4' Zauberflöte                           | 73    | 8' Harmonic Trumpet ( <i>Swell</i> ) |       |
| 2 2/3' Harmonic Stopped 12 <sup>th</sup> | 61    | 4' Clarion                           | 73    |
| 2' Piccolo                               | 61    | Concert Harp (D)                     |       |
| Terzian II 17-19                         | 122   | Tremulant                            |       |
| Fourniture IV                            |       | Solo To Solo 16                      |       |
| 12-15-19-22                              | 244   | Solo Unison Off                      |       |
| 16' Bass Trombone                        | 85    | Solo To Solo 4                       |       |

## String Organ

10" Wind Pressure

| Pipes |                        |     | Pipes |                             |     |
|-------|------------------------|-----|-------|-----------------------------|-----|
| 16'   | Double Violes IIR      | 122 |       | Cornet de Violes III        |     |
| 8'    | Violes d'Orchestre IIR | 122 |       | 10-12-15                    | 183 |
| 8'    | Violes d'Orchestre IIR | 122 | 8'    | Vox Humana                  | 61  |
| 8'    | Violins IIR            | 122 |       | Zimbelstern (Klann) 4 Bells |     |
| 8'    | Violas d'Amoure IIR    | 122 |       |                             |     |
| 8'    | Violes Sourdine IIR    | 122 |       | On Solo                     |     |
| 4'    | Octave Viols IIR       | 122 |       | On Swell                    |     |
| 4'    | Viola d'Amore          | 61  |       | On Great                    |     |
|       |                        |     |       | On Choir                    |     |

## Celestial Organ

7" Wind Pressure

| Pipes |                    |       |     | Pipes              |    |
|-------|--------------------|-------|-----|--------------------|----|
| 16'   | Contra Salacional  | 61    | 16' | 1st Vox Humana     | 73 |
| 8'    | Diapason           | 61    | 8'  | 1st Vox Humana     |    |
| 8'    | Hohlflöte          | 61    | 8'  | 2nd Vox Humana     | 73 |
| 8'    | 1st Unda Maris IIR | 122   | 4'  | 2nd Vox Humana     |    |
| 8'    | 2nd Unda Maris IIR | 122   |     | Celestial Harp (D) |    |
| 8'    | Aeoline            | 61    |     | Chimes (Mayland)   |    |
| 8'    | Voix Celeste IIR   | 122   |     | 25 Tubes           |    |
| 4'    | Octave             | 61    |     | Tremulant          |    |
| 4'    | Harmonic Flute     | 61    |     | On Solo            |    |
| 4'    | Flauto Mistico IIR | 122   |     | On Swell           |    |
|       | Rauschquint II     | 12-15 |     | On Great           |    |
| 8'    | Tromba             | 61    |     | On Choir           |    |

## Antiphonal Organ

Wind Pressure 7"

| Pipes |                   |            | Pipes                        |
|-------|-------------------|------------|------------------------------|
| 16'   | Bourdon           | 1-12(D) 49 | Mixture IV                   |
| 8'    | Principal         | 61         | 19-22-26-29 244              |
| 8'    | Melodia           | 61         | Mounted Cornet V 150         |
| 8'    | Gemshorn          | 61         | 1-8ve-12-15-17               |
| 8'    | Gedeckt           | 61         | 16' Double Trumpet (ext.) 12 |
| 8'    | Flauto Dolcissimo | 61         | 16' Waldhorn (ext.) 12       |
| 8'    | Flute Celeste     | 49         | 8' Trumpet 61                |
| 8'    | Viola da Gamba    | 61         | 8' Corno d'Amore             |
| 8'    | Viole Aetheria    | 61         | (Waldhorn 16') 61            |
| 8'    | Vox Angelica      | 49         | 8' Voce Bassetto 61          |
| 4'    | Octave            | 61         | Tremulant                    |
| 4'    | Fernflöte         | 61         | On Solo                      |
| 4'    | Dulcet            | 61         | On Swell                     |
| 4'    | Dulcet Celeste    | 61         | On Great                     |
| 2'    | Fifteenth         | 61         | On Choir                     |

## Pedal Organ

Pipes

|         |                             |    |        |                           |     |
|---------|-----------------------------|----|--------|---------------------------|-----|
| 32'     | Open Wood (D)               |    | 8'     | Viola Celeste IIR (Swell) |     |
| 32'     | Principal (D)               |    | 8'     | Dulciana (Swell)          |     |
| 32'     | Sanft Bass (D)              |    | 5 1/3' | Twelfth                   | 32  |
| 32'     | Contra Bourdon              |    | 4'     | Flute (Choir) (D)         |     |
|         | (Solo ext.)                 | 12 | 4'     | Super Octave (Great)      |     |
| 16'     | Contra Bass                 | 32 | 4'     | Choral Bass               | 32  |
| 16'     | Diapason (Great)            |    | 4'     | Nachthorn                 | 32  |
| 16'     | Contra Geigen (Swell)       |    | 2'     | Blockflöte                | 32  |
| 16'     | Violone Bass (Choir) (D)    |    | 2'     | Kleine Octave             | 32  |
| 16'     | Soubasse (Choir) (D)        |    |        | Grand Cornet V            |     |
| 16'     | Bourdon (Great)             |    |        | 12-15-17-19-22            | 160 |
| 16'     | Stopped Flute (Choir) (D)   |    |        | Cymbale IV                |     |
| 16'     | Lieblich Gedeckt (Swell)    |    |        | 22-26-29-33               | 128 |
| 16'     | Violone                     | 44 | 32'    | Contra Bombarde (D)       |     |
| 16'     | String Celeste IIR (String) |    | 16'    | Bombarde (Solo)           |     |
| 16'     | Viola (Choir)               |    | 16'    | Trombone (Great)          |     |
| 16'     | Flute Conique (Choir)       |    | 16'    | Fagotto (Swell)           |     |
| 16'     | Dulciana (Swell)            |    | 16'    | Baryton (Choir)           |     |
| 10 2/3' | Quint                       | 32 | 8'     | Bombarde (16')            |     |
| 8'      | Principal                   | 32 | 8'     | Trombone (Great)          |     |
| 8'      | Octave                      |    | 8'     | Bassoon (Solo)            |     |
|         | (Great Double Diapason)     |    | 4'     | Clarion                   |     |
| 8'      | Gedeckt (Swell)             | 32 |        | (Swell Harmonic Trumpet)  |     |
| 8'      | Violoncello (Violone 16')   |    | 4'     | Rohr Schalmel (Choir)     |     |
| 8'      | Bass Flute (Choir) (D)      |    | 4'     | Trompette (Choir)         |     |
| 8'      | Flute Conique (Choir)       |    |        | Chimes (D)                |     |

## Gallery Pedal

Pipes

|     |                        |    |     |                         |    |
|-----|------------------------|----|-----|-------------------------|----|
| 32' | Contra Bourdon (D)     |    | 8'  | Violone (D)             |    |
| 16' | Open Diapason (D)      |    | 8'  | Viola da Gamba          |    |
| 16' | Bourdon (Antiphonal)   |    |     | (Antiphonal)            |    |
| 16' | Subbass                | 32 | 4'  | Choral Bass (Principal) | 12 |
| 16' | Violone (D)            |    | 4'  | Fern Flute (Antiphonal) |    |
| 16' | Viola da Gamba         |    | 16' | Double Trumpet          |    |
|     | (Antiphonal ext.)      | 12 |     | (Antiphonal)            |    |
| 16' | Salicional (Celestial) |    | 16' | Waldhorn (Antiphonal)   |    |
| 8'  | Principal              | 32 | 8'  | Trumpet (Antiphonal)    |    |
| 8'  | Octave Bourdon         |    | 4'  | Clarion (Antiphonal)    |    |
|     | (Subbass 16')          | 12 |     | Chimes                  |    |



## Bells/Percussion

- Glockenspiel (*Solo*) (D)  
(All bells are Maas-Rowe)
- Celeste Bells (37 Notes)
- Harp Bells (37 Notes)
- 4' Minor Bells (37 Notes)
- Major Bells (37 Notes)
- Symphonic Carillon  
(37 Notes)
- Flemish Bells (37 Notes)
- On Solo
- On Swell
- On Great
- On Choir
- Great Melody
- 16' Pedal Bourdon Bell  
(13 Notes)
- 8' Pedal Bourdon Bell  
(13 Notes)
- 8' Pedal Flemish Bells  
(13 Notes)
- 1' Whistle – Toe Piston
- Bass Drum (D) Toe Piston
- Cymbal (D) Toe Piston
- Pedal Grand Timpani (*Solo*)
- Pedal Minor Timpani (*Solo*)
- Bells Inside
- Bells Outside
- Front Speaker
- Back Speaker
- Key Selector

## MIDI/Expression

- Midi on Solo I
- Midi on Solo II
- Midi on Swell I
- Midi on Swell II
- Midi on Great I
- Midi on Great II
- Midi on Choir I
- Midi on Choir II
- Midi on Pedal I
- Midi on Pedal II
- Swell Chancel Shades Closed –controls tone openings
- Swell Nave Shades Closed- controls tone openings
- Great/Choir Chancel Shades Closed-controls tone openings
- Great/Choir Nave Shades Closed- controls one openings
- Celestial Shades on Swell Shoe
- Celestial Shades on Choir Shoe
- Antiphonal Shades on Solo Shoe
- Antiphonal Shades on Choir Shoe
- String Shades on Solo Shoe
- String Shades on Swell Shoe
- String Shades on Choir Shoe
- All Shades on Swell Shoe
- Solo Speakers Of



## Console Appointments

Total pipes in organ, 14,581; Ranks, 245; Speaking stops (includes Percussions), 269; Digital Stops, 22; Couplers, 50; Drawknobs on console, 335;  
Manual Disposition: I Choir; II Great;  
III Swell; IV Solo; Celestial, Antiphonal, String, Bells/Percussion are floating divisions assignable to any manual

Virtuoso Pipe Organ Control System  
Unlimited Users  
30 Levels of Memory per User

## Pistons

- 15 Adjustable general pistons
- 6 Adjustable pistons controlling stops of Solo
- 6 Adjustable pistons controlling stops of Swell
- 6 Adjustable pistons controlling stops of Great
- 6 Adjustable pistons controlling stops of Choir
- 4 Adjustable pistons controlling stops of Celestial
- 4 Adjustable pistons controlling stops of Antiphonal
- 6 Adjustable pistons controlling stops of Pedal
- 4 Adjustable pistons on controlling stops of Antiphonal Pedal
- 3 Adjustable pistons controlling stops of String
- 3 Adjustable pistons controlling stops of Percussion
- Transposer on Solo left key-cheek
- Zimbelstern on Swell left key-cheek
- Pedal Bell Bourdon on Great left key-cheek
- Set
- SFORZ on left Choir key-cheek
- General Cancel
- Memory + on right Swell key-cheek
- Memory – on right Swell key-cheek
- All Swells to Swell
- Previous on Manual and Toe Piston
- Next on Manual and Toe Piston
- Cancel Tablets above each division

- Indicators for all balanced pedals
- Balanced Antiphonal and String Pedal
- Balanced Celestial and Solo Pedal
- Balanced Swell and Master Swell Pedal
- Balanced Choir and Great Pedal
- Balanced Crescendo Pedal

